

<FR1 n77/n78 MIMO2 Ant Reduced Power Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		10.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		8.84		10.0
100	PI/2 BPSK	1	137		8.65		
100	PI/2 BPSK	1	271		8.67		
100	PI/2 BPSK	135	0		8.76		10.0
100	PI/2 BPSK	135	69		8.71		10.0
100	PI/2 BPSK	135	138		8.73		10.0
100	PI/2 BPSK	270	0		8.62		
100	QPSK	1	1		8.68		10.0
100	QPSK	1	137		8.59		
100	QPSK	1	271		8.63		
100	QPSK	135	0		8.65		10.0
100	QPSK	135	69		8.70		
100	QPSK	135	138		8.71		
100	QPSK	270	0		8.53		10.0
100	16QAM	1	1		8.63		10.0
100	64QAM	1	1		8.37		10.0
100	256QAM	1	1		8.44		10.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	8.53	8.58	8.49	10.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	8.51	8.51	8.46	10.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	8.52	8.60	8.53	10.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	8.49	8.57	8.55	10.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	8.46	8.54	8.50	10.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	8.44	8.49	8.52	10.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	8.47	8.52	8.41	10.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	8.46	8.58	8.43	10.0

<FR1 n77/n78 MIMO2 Ant Reduced Power Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.93		19.5
100	PI/2 BPSK	1	137		18.86		
100	PI/2 BPSK	1	271		18.79		
100	PI/2 BPSK	135	0		18.82		19.5
100	PI/2 BPSK	135	69		18.77		19.5
100	PI/2 BPSK	135	138		18.76		19.5
100	PI/2 BPSK	270	0		18.77		
100	QPSK	1	1		18.87		19.5
100	QPSK	1	137		18.83		
100	QPSK	1	271		18.81		
100	QPSK	135	0		18.75		19.5
100	QPSK	135	69		18.79		
100	QPSK	135	138		18.72		
100	QPSK	270	0		18.82		19.5
100	16QAM	1	1		18.84		19.5
100	64QAM	1	1		18.57		19.5
100	256QAM	1	1		18.07		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.74	18.85	18.71	19.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.73	18.82	18.70	19.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.77	18.80	18.73	19.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.75	18.83	18.68	19.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.76	18.84	18.69	19.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.74	18.82	18.73	19.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.72	18.79	18.72	19.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.79	18.85	18.69	19.5

<FR1 n77 HPUE Main Ant Default Power Laptop / Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.84		27.0
100	PI/2 BPSK	1	137		25.61		
100	PI/2 BPSK	1	271		25.42		
100	PI/2 BPSK	135	0		25.34		26.5
100	PI/2 BPSK	135	69		25.47		27.0
100	PI/2 BPSK	135	138		25.40		26.5
100	PI/2 BPSK	270	0		25.44		
100	QPSK	1	1		25.34		27.0
100	QPSK	1	137		25.42		
100	QPSK	1	271		25.26		
100	QPSK	135	0		25.26		27.0
100	QPSK	135	69		25.60		
100	QPSK	135	138		25.36		
100	QPSK	270	0		25.29		26.0
100	16QAM	1	1		24.73		26.0
100	64QAM	1	1		22.89		24.5
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.56	25.60	25.72	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.48	25.71	25.73	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.26	25.45	25.71	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.27	25.36	25.65	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.41	25.48	25.79	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.31	25.35	25.78	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.50	25.56	25.76	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.44	25.41	25.71	27.0



<FR1 n77 HPUE MIMO2 Ant Default Power Laptop / Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		27.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.89		26.5
100	PI/2 BPSK	1	137		25.87		
100	PI/2 BPSK	1	271		25.62		
100	PI/2 BPSK	135	0		25.48		27.0
100	PI/2 BPSK	135	69		25.77		
100	PI/2 BPSK	135	138		25.67		
100	PI/2 BPSK	270	0		25.62		26.5
100	QPSK	1	1		25.77		
100	QPSK	1	137		25.61		
100	QPSK	1	271		25.55		27.0
100	QPSK	135	0		25.69		
100	QPSK	135	69		25.63		
100	QPSK	135	138		25.62		26.0
100	QPSK	270	0		24.64		
100	16QAM	1	1		24.10		
100	64QAM	1	1		23.35		24.5
100	256QAM	1	1		21.87		
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.46	25.66	25.72	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.48	25.63	25.51	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.48	25.70	25.60	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.40	25.71	25.70	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.52	25.70	25.57	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.39	25.73	25.60	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.49	25.75	25.66	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.45	25.71	25.65	27.0

**<FR1 n77 HPUE MIMO3 Ant Default Power Laptop / Tablet Mode>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.15		10.0
100	PI/2 BPSK	1	137		9.02		
100	PI/2 BPSK	1	271		9.03		
100	PI/2 BPSK	135	0		8.83		10.0
100	PI/2 BPSK	135	69		8.92		10.0
100	PI/2 BPSK	135	138		8.85		10.0
100	PI/2 BPSK	270	0		8.79		
100	QPSK	1	1		8.86		10.0
100	QPSK	1	137		8.87		
100	QPSK	1	271		9.00		
100	QPSK	135	0		8.99		10.0
100	QPSK	135	69		9.02		
100	QPSK	135	138		8.80		
100	QPSK	270	0		8.90		10.0
100	16QAM	1	1		8.96		10.0
100	64QAM	1	1		8.97		10.0
100	256QAM	1	1		8.90		10.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	8.99	8.82	8.93	10.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	8.92	8.87	8.93	10.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	8.87	8.70	8.85	10.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	8.72	8.83	8.88	10.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	8.78	8.69	8.60	10.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	8.83	8.70	8.75	10.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	8.91	8.75	8.78	10.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	8.93	8.81	8.78	10.0

<FR1 n77 HPUE Aux Ant Default Power Laptop / Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.36		25.0
100	PI/2 BPSK	1	137		23.35		
100	PI/2 BPSK	1	271		23.08		
100	PI/2 BPSK	135	0		23.26		25.0
100	PI/2 BPSK	135	69		23.29		25.0
100	PI/2 BPSK	135	138		23.01		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.04		25.0
100	QPSK	1	137		23.26		
100	QPSK	1	271		23.04		
100	QPSK	135	0		23.11		25.0
100	QPSK	135	69		23.29		
100	QPSK	135	138		23.01		
100	QPSK	270	0		23.07		25.0
100	16QAM	1	1		23.02		25.0
100	64QAM	1	1		22.65		24.5
100	256QAM	1	1		21.68		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.19	23.14	23.18	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.24	23.14	23.29	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.24	23.24	23.19	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.09	23.24	23.16	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.03	23.23	23.26	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.11	23.18	23.12	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.17	23.15	23.03	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.22	23.19	23.06	25.0

<FR1 n77 HPUE Main Ant Reduced Power Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		21.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.55		21.5
100	PI/2 BPSK	1	137		20.44		
100	PI/2 BPSK	1	271		20.49		
100	PI/2 BPSK	135	0		20.36		21.5
100	PI/2 BPSK	135	69		20.32		21.5
100	PI/2 BPSK	135	138		20.31		21.5
100	PI/2 BPSK	270	0		20.31		
100	QPSK	1	1		20.32		21.5
100	QPSK	1	137		20.24		
100	QPSK	1	271		20.25		
100	QPSK	135	0		20.27		21.5
100	QPSK	135	69		20.33		
100	QPSK	135	138		20.37		
100	QPSK	270	0		20.27		21.5
100	16QAM	1	1		20.15		21.5
100	64QAM	1	1		20.13		21.5
100	256QAM	1	1		20.15		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.14	20.25	20.07	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.10	20.30	20.04	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.13	20.30	20.06	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.09	20.25	20.04	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.17	20.29	20.03	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.06	20.28	20.09	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.04	20.27	20.03	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.10	20.32	20.07	21.5

<FR1 n77 HPUE MIMO2 Ant Reduced Power Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		13.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.67		13.0
100	PI/2 BPSK	1	137		11.44		
100	PI/2 BPSK	1	271		11.41		
100	PI/2 BPSK	135	0		11.52		13.0
100	PI/2 BPSK	135	69		11.49		13.0
100	PI/2 BPSK	135	138		11.46		13.0
100	PI/2 BPSK	270	0		11.42		
100	QPSK	1	1		11.50		13.0
100	QPSK	1	137		11.35		
100	QPSK	1	271		11.36		
100	QPSK	135	0		11.43		13.0
100	QPSK	135	69		11.46		
100	QPSK	135	138		11.51		
100	QPSK	270	0		11.36		13.0
100	16QAM	1	1		11.41		13.0
100	64QAM	1	1		11.11		13.0
100	256QAM	1	1		11.17		13.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	11.26	11.31	11.31	13.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	11.30	11.29	11.19	13.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	11.28	11.37	11.28	13.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	11.32	11.37	11.38	13.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	11.20	11.36	11.31	13.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	11.24	11.26	11.32	13.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	11.21	11.25	11.18	13.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	11.20	11.34	11.22	13.0

<FR1 n77 HPUE MIMO2 Ant Reduced Power Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		22.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.76		22.5
100	PI/2 BPSK	1	137		21.75		
100	PI/2 BPSK	1	271		21.74		
100	PI/2 BPSK	135	0		21.75		22.5
100	PI/2 BPSK	135	69		21.69		22.5
100	PI/2 BPSK	135	138		21.72		22.5
100	PI/2 BPSK	270	0		21.66		
100	QPSK	1	1		21.75		22.5
100	QPSK	1	137		21.72		
100	QPSK	1	271		21.73		
100	QPSK	135	0		21.67		22.5
100	QPSK	135	69		21.65		
100	QPSK	135	138		21.72		
100	QPSK	270	0		21.70		22.5
100	16QAM	1	1		21.62		22.5
100	64QAM	1	1		21.65		22.5
100	256QAM	1	1		21.58		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.64	21.70	21.65	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.65	21.73	21.62	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.65	21.72	21.66	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.62	21.69	21.63	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.58	21.64	21.64	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.59	21.70	21.66	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.62	21.68	21.62	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.55	21.65	21.66	22.5

<FR1 n78 Main Ant Default Power Laptop / Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.03		24.0
100	PI/2 BPSK	1	137		22.99		
100	PI/2 BPSK	1	271		22.85		
100	PI/2 BPSK	135	0		22.78		23.5
100	PI/2 BPSK	135	69		23.02		24.0
100	PI/2 BPSK	135	138		22.89		23.5
100	PI/2 BPSK	270	0		22.77		
100	QPSK	1	1		22.53		24.0
100	QPSK	1	137		23.01		
100	QPSK	1	271		22.74		
100	QPSK	135	0		22.19		24.0
100	QPSK	135	69		23.02		
100	QPSK	135	138		22.29		
100	QPSK	270	0		22.13		23.0
100	16QAM	1	1		21.44		23.0
100	64QAM	1	1		20.04		21.5
100	256QAM	1	1		18.44		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.68	22.80	23.02	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.77	22.90	23.02	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.69	23.01	23.02	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.65	22.93	23.01	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.63	22.95	22.94	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.80	22.90	22.93	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.90	22.92	22.98	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.91	22.91	22.98	24.0

<FR1 n78 MIMO2 Ant Default Power Laptop / Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.00		24.0
100	PI/2 BPSK	1	137		22.95		
100	PI/2 BPSK	1	271		22.58		
100	PI/2 BPSK	135	0		22.41		23.5
100	PI/2 BPSK	135	69		22.98		24.0
100	PI/2 BPSK	135	138		22.50		23.5
100	PI/2 BPSK	270	0		22.40		
100	QPSK	1	1		22.15		24.0
100	QPSK	1	137		22.91		
100	QPSK	1	271		22.53		
100	QPSK	135	0		22.00		24.0
100	QPSK	135	69		22.98		
100	QPSK	135	138		22.00		
100	QPSK	270	0		21.80		23.0
100	16QAM	1	1		21.11		23.0
100	64QAM	1	1		19.65		21.5
100	256QAM	1	1		18.07		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.80	22.40	22.45	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.84	22.58	22.60	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.56	22.91	22.61	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.83	22.94	22.51	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.78	22.75	22.56	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.65	22.82	22.45	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.61	22.98	22.69	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.56	22.99	22.40	24.0

<FR1 n78 MIMO3 Ant Default Power Laptop / Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		7.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		6.28		7.0
100	PI/2 BPSK	1	137		6.11		
100	PI/2 BPSK	1	271		6.20		
100	PI/2 BPSK	135	0		6.05		7.0
100	PI/2 BPSK	135	69		6.00		7.0
100	PI/2 BPSK	135	138		5.98		7.0
100	PI/2 BPSK	270	0		6.11		
100	QPSK	1	1		6.05		7.0
100	QPSK	1	137		6.04		
100	QPSK	1	271		5.89		
100	QPSK	135	0		5.98		7.0
100	QPSK	135	69		5.97		
100	QPSK	135	138		6.05		
100	QPSK	270	0		6.12		7.0
100	16QAM	1	1		6.10		7.0
100	64QAM	1	1		6.04		7.0
100	256QAM	1	1		6.00		7.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	6.02	6.11	6.02	7.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	5.96	6.02	6.10	7.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	5.92	6.00	5.88	7.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	5.89	5.89	5.78	7.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	5.85	5.98	6.02	7.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	6.01	5.97	6.03	7.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	6.00	5.99	6.10	7.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	6.03	5.90	6.05	7.0

<FR1 n78 Aux Ant Default Power Laptop / Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.85		22.0
100	PI/2 BPSK	1	137		20.00		
100	PI/2 BPSK	1	271		20.51		
100	PI/2 BPSK	135	0		20.33		22.0
100	PI/2 BPSK	135	69		20.80		22.0
100	PI/2 BPSK	135	138		20.38		22.0
100	PI/2 BPSK	270	0		20.38		
100	QPSK	1	1		20.03		22.0
100	QPSK	1	137		20.79		
100	QPSK	1	271		20.37		
100	QPSK	135	0		20.00		22.0
100	QPSK	135	69		20.78		
100	QPSK	135	138		20.00		
100	QPSK	270	0		20.03		22.0
100	16QAM	1	1		20.02		22.0
100	64QAM	1	1		18.14		20.0
100	256QAM	1	1		16.64		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.18	20.11	20.23	22.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.20	20.35	20.24	22.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.30	20.38	20.11	22.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.44	20.40	20.13	22.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.45	20.41	20.15	22.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.35	20.43	20.00	22.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.38	20.40	20.32	22.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.30	20.38	20.30	22.0

<FR1 n78 Main Ant Reduced Power Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		18.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.45		18.5
100	PI/2 BPSK	1	137		17.41		
100	PI/2 BPSK	1	271		17.36		
100	PI/2 BPSK	135	0		17.42		18.5
100	PI/2 BPSK	135	69		17.41		18.5
100	PI/2 BPSK	135	138		17.23		18.5
100	PI/2 BPSK	270	0		17.13		
100	QPSK	1	1		17.41		18.5
100	QPSK	1	137		17.32		
100	QPSK	1	271		17.34		
100	QPSK	135	0		17.35		18.5
100	QPSK	135	69		17.43		
100	QPSK	135	138		17.25		
100	QPSK	270	0		17.19		18.5
100	16QAM	1	1		17.37		18.5
100	64QAM	1	1		17.34		18.5
100	256QAM	1	1		17.35		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.00	17.23	17.02	18.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.33	17.30	16.92	18.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.28	17.18	16.80	18.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.32	17.10	16.99	18.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.99	17.18	17.03	18.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.96	17.23	17.12	18.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.10	17.26	17.15	18.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.05	17.28	17.18	18.5

<FR1 n78 MIMO2 Ant Reduced Power Tablet Mode>

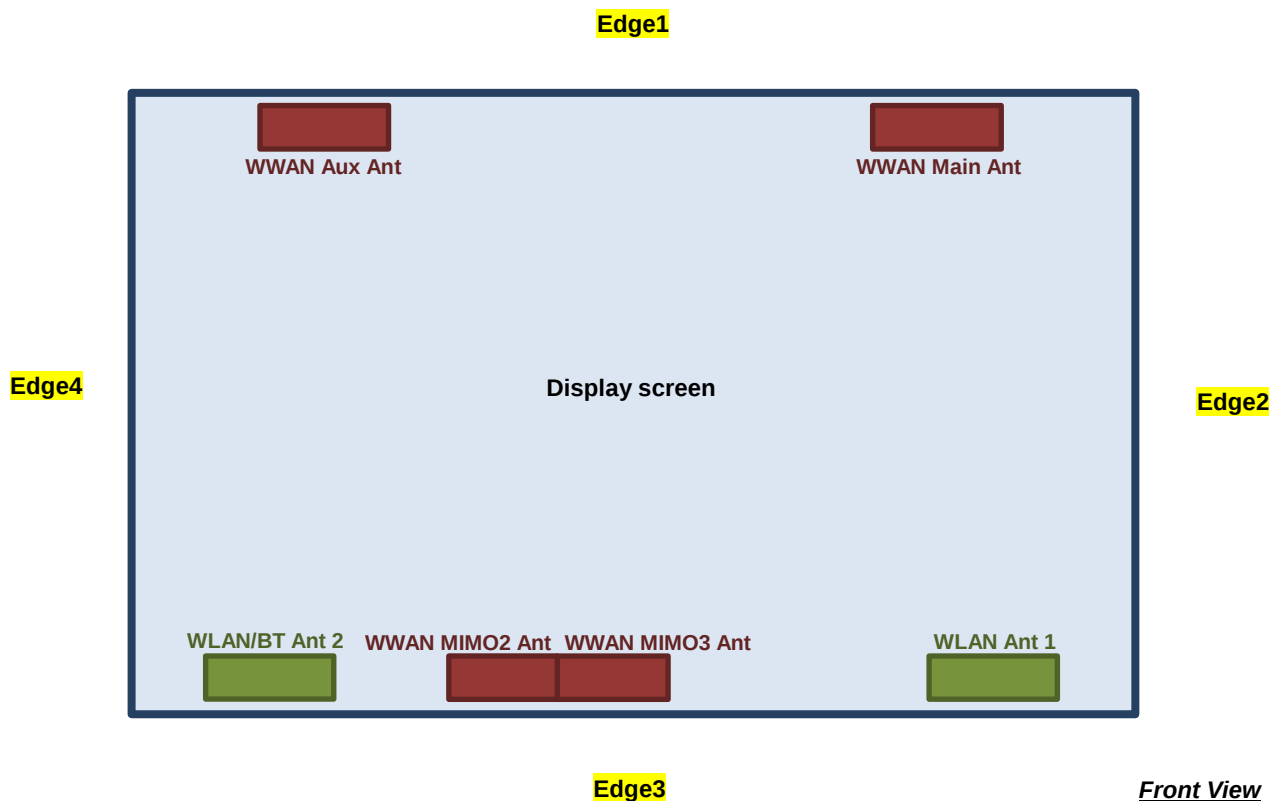
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		10.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		8.90		10.0
100	PI/2 BPSK	1	137		8.64		
100	PI/2 BPSK	1	271		8.59		
100	PI/2 BPSK	135	0		8.66		10.0
100	PI/2 BPSK	135	69		8.62		10.0
100	PI/2 BPSK	135	138		8.58		10.0
100	PI/2 BPSK	270	0		8.61		
100	QPSK	1	1		8.68		10.0
100	QPSK	1	137		8.53		
100	QPSK	1	271		8.61		
100	QPSK	135	0		8.57		10.0
100	QPSK	135	69		8.67		
100	QPSK	135	138		8.71		
100	QPSK	270	0		8.48		10.0
100	16QAM	1	1		8.58		10.0
100	64QAM	1	1		8.28		10.0
100	256QAM	1	1		8.35		10.0
Channel				633666	650000	633666	Tune-up limit (dBm)
Frequency (MHz)				3504.99	3750	3504.99	
90	PI/2 BPSK	1	1	8.44	8.57	8.47	10.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	8.43	8.50	8.44	10.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	8.48	8.60	8.52	10.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	8.49	8.49	8.51	10.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	8.41	8.47	8.49	10.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	8.40	8.41	8.43	10.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	8.39	8.45	8.39	10.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	8.38	8.48	8.41	10.0

<FR1 n78 MIMO2 Ant Reduced Power Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		19.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.92		19.5
100	PI/2 BPSK	1	137		17.83		
100	PI/2 BPSK	1	271		17.85		
100	PI/2 BPSK	135	0		17.86		19.5
100	PI/2 BPSK	135	69		17.91		19.5
100	PI/2 BPSK	135	138		17.90		19.5
100	PI/2 BPSK	270	0		17.86		
100	QPSK	1	1		17.88		19.5
100	QPSK	1	137		17.83		
100	QPSK	1	271		17.89		
100	QPSK	135	0		17.75		19.5
100	QPSK	135	69		17.77		
100	QPSK	135	138		17.75		
100	QPSK	270	0		17.72		19.5
100	16QAM	1	1		17.71		19.5
100	64QAM	1	1		17.77		19.5
100	256QAM	1	1		17.79		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.73	17.82	17.77	19.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.79	17.89	17.75	19.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.78	17.84	17.76	19.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.75	17.85	17.77	19.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.80	17.87	17.82	19.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.85	17.84	17.73	19.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.86	17.86	17.78	19.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.85	17.87	17.84	19.5

14. Antenna Location

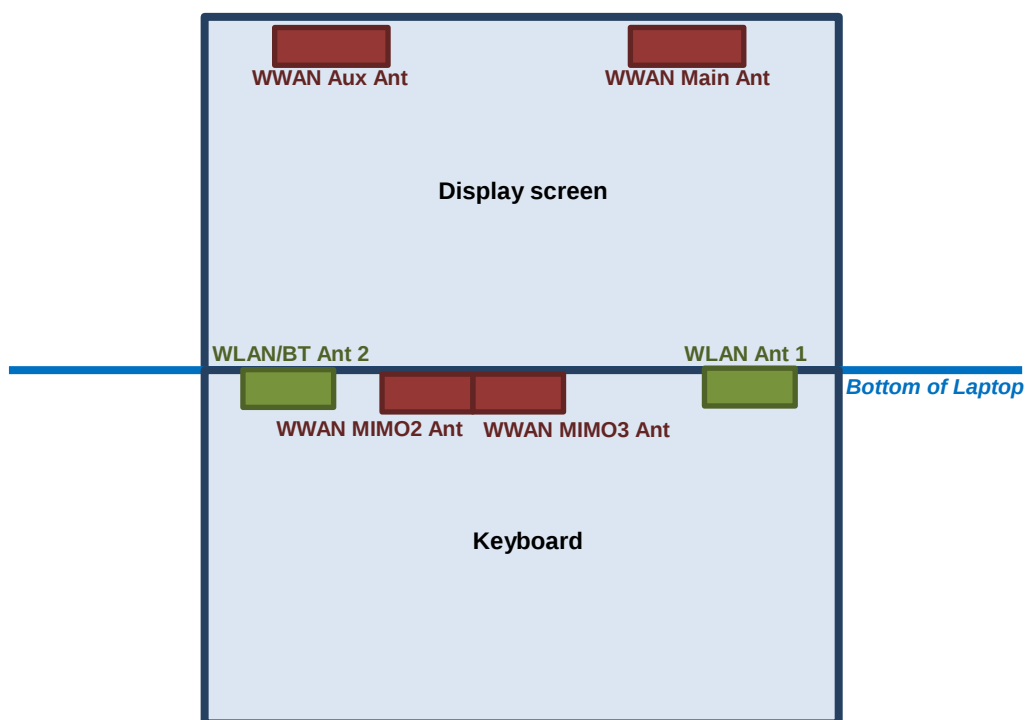
<For Tablet>



The separation distance for antenna to edge :

Antenna	To Edge1 (mm)	To Edge2 (mm)	To Edge3 (mm)	To Edge4 (mm)
WWAN Main Antenna	< 5	26	200.4	188
WWAN MIMO2 Antenna	201.4	136.6	< 5	67.5
WWAN MIMO3 Antenna	201.4	136.6	< 5	67.5
WWAN Aux Antenna	< 5	188	200.4	26

<For Laptop>



The separation distance for antenna to edge :

Antenna	To Bottom of Laptop (mm)
WWAN Main Antenna	200.4
WWAN MIMO2 Antenna	< 5
WWAN MIMO3 Antenna	< 5
WWAN Aux Antenna	200.4

<SAR test exclusion table>
General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

<Main Antenna>

	Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE Band 71 / n71	LTE Band 12	LTE Band 13	LTE Band 14	LTE Band 17	LTE Band 5 / n5	LTE Band 26	LTE Band 4	LTE Band 66 / n66	LTE Band 2 / n2	LTE Band 25 / n25	LTE Band 30 / n30	LTE Band 7 / n7	LTE Band 38 / n38	LTE Band 41 / n41	LTE Band n77	LTE Band n78
Exposure Position	Calculated Frequency (MHz)	846	1750	1907	695	715	784	795	713	848	848	1754	1779	1909	1914	2312	2567	2617	2687	3650	3650
	Maximum power (dBm)	24.5	24.5	24.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	23.0	24.0	24.0	24.0	24.0	24.0
	Maximum rated power(mW)	281.84	281.84	281.84	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	251.19	199.53	251.19	251.19	251.19	251.19	251.19
Bottom Face	Separation distance(mm)	5.0																			
	exclusion threshold	51.9	74.6	77.8	41.9	42.5	44.5	44.8	42.4	46.3	46.3	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	96.0	96.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	3.5																			
	exclusion threshold	51.9	74.6	77.8	41.9	42.5	44.5	44.8	42.4	46.3	46.3	66.5	67.0	69.4	69.5	60.7	80.5	81.3	82.4	96.0	96.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	26.0																			
	exclusion threshold	10.0	14.3	15.0	8.1	8.2	8.6	8.6	8.2	8.9	8.9	12.8	12.9	13.4	13.4	11.7	15.5	15.6	15.8	18.5	18.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 3	Separation distance(mm)	200.4																			
	exclusion threshold	1012.0	1618.0	1613.0	877.0	894.0	956.0	966.0	893.0	1013.0	1013.0	1618.0	1617.0	1613.0	1613.0	1603.0	1598.0	1597.0	1596.0	1583.0	1583.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	188.0																			
	exclusion threshold	941.0	1493.0	1489.0	819.0	835.0	891.0	900.0	834.0	943.0	943.0	1493.0	1492.0	1489.0	1488.0	1479.0	1474.0	1473.0	1472.0	1459.0	1459.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Bottom of Laptop	Separation distance(mm)	200.4																			
	exclusion threshold	1012.0	1618.0	1613.0	877.0	894.0	956.0	966.0	893.0	1013.0	1013.0	1618.0	1617.0	1613.0	1613.0	1603.0	1598.0	1597.0	1596.0	1583.0	1583.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

<MIMO2 Antenna>

Exposure Position	Wireless Interface	LTE Band 4	LTE Band 66 / n66	LTE Band 2 / n2	LTE Band 25	LTE Band 30	LTE Band 7	LTE Band 41 / n41	LTE Band 48	LTE Band n77	LTE Band n78
	Calculated Frequency (MHz)	1754	1779	1909	1914	2312	2567	2687	3697	3650	3650
	Maximum power (dBm)	24.0	24.0	24.0	24.0	23.0	24.0	24.0	22.0	24.0	24.0
	Maximum rated power(mW)	251.19	251.19	251.19	251.19	199.53	251.19	251.19	158.49	251.19	251.19
Bottom Face	Separation distance(mm)	5.0									
	exclusion threshold	66.5	67.0	69.4	69.5	60.7	80.5	824.4	61.0	96.0	96.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	201.4									
	exclusion threshold	1627.0	1626.0	1622.0	1622.0	1613.0	1608.0	1605.0	1592.0	1592.0	1592.0
	Testing required?	No	No	No	No	No	No	No	No	No	No
Edge 2	Separation distance(mm)	136.6									
	exclusion threshold	288.0	287.0	284.0	263.0	274.0	269.0	267.0	253.0	254.0	254.0
	Testing required?	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	5.0									
	exclusion threshold	66.5	67.0	69.4	69.5	60.7	80.5	82.4	61.0	96.0	96.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 4	Separation distance(mm)	67.5									
	exclusion threshold	979.0	978.0	975.0	974.0	965.0	960.0	958.0	944.0	945.0	945.0
	Testing required?	No	No	No	No	No	No	No	No	No	No
Bottom of Laptop	Separation distance(mm)	5.0									
	exclusion threshold	66.5	67.0	69.4	69.5	60.7	80.5	824.4	61.0	96.0	96.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<MIMO3 Antenna>

Exposure Position	Wireless Interface	LTE Band n41	LTE Band n77	LTE Band n78
	Calculated Frequency (MHz)	2687	3650	3650
	Maximum power (dBm)	24.0	24.0	24.0
	Maximum rated power(mW)	251.19	251.19	251.19
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	82.4	96.0	96.0
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	201.4		
	exclusion threshold	1605.0	1592.0	1592.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	136.6		
	exclusion threshold	267.0	254.0	254.0
	Testing required?	No	No	No
Edge 3	Separation distance(mm)	5.0		
	exclusion threshold	82.4	96.0	96.0
	Testing required?	Yes	Yes	Yes
Edge 4	Separation distance(mm)	67.5		
	exclusion threshold	958.0	945.0	945.0
	Testing required?	No	No	No
Bottom of Laptop	Separation distance(mm)	5.0		
	exclusion threshold	82.4	96.0	96.0
	Testing required?	Yes	Yes	Yes

<Aux Antenna>

Exposure Position	Wireless Interface	LTE Band n41	LTE Band n77	LTE Band n78
	Calculated Frequency (MHz)	2687	3650	3650
	Maximum power (dBm)	24.0	24.0	24.0
	Maximum rated power(mW)	251.19	251.19	251.19
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	82.4	96.0	96.0
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	5.0		
	exclusion threshold	82.4	96.0	96.0
	Testing required?	Yes	Yes	Yes
Edge 2	Separation distance(mm)	188.0		
	exclusion threshold	1472.0	1459.0	1459.0
	Testing required?	No	No	No
Edge 3	Separation distance(mm)	200.4		
	exclusion threshold	1596.0	1583.0	1583.0
	Testing required?	No	No	No
Edge 4	Separation distance(mm)	26.0		
	exclusion threshold	15.8	18.5	18.5
	Testing required?	Yes	Yes	Yes
Bottom of Laptop	Separation distance(mm)	200.4		
	exclusion threshold	1596.0	1583.0	1583.0
	Testing required?	No	No	No

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - c. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. For the exposure positions that proximity sensor power reduction is applied for SAR compliance, additional SAR testing with EUT transmitting full power in sensor trigger distance was performed according to section 4. The test results just verification the sensor trigger distance to meet KDB 616217 requirement, when in normal usage will not operate at trigger distance, therefore, these results were not using performed Sim-Tx analysis.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device is not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. The NR n2/38 SAR test was covered by NR n25/41; due to SAR test for overlapping NR bands can be reduced if the maximum power including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion and the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.
 - g. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.

**15.1 Body SAR****<WCDMA SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Main	RMC 12.2Kbps	Bottom Face	0mm	Speed	Tablet	OFF	9538	1907.6	23.96	24.50	1.132	-0.13	0.062	0.070
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	14mm	Speed	Tablet	OFF	9538	1907.6	23.96	24.50	1.132	-0.06	0.152	0.172
	WCDMA II_Main	RMC 12.2Kbps	Edge 2	3mm	Speed	Tablet	OFF	9538	1907.6	23.96	24.50	1.132	-0.01	0.140	0.159
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	9538	1907.6	20.37	20.50	1.030	-0.17	1.100	1.133
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	9262	1852.4	20.25	20.50	1.059	0.01	1.060	1.123
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	9400	1880	20.29	20.50	1.050	0.06	1.070	1.123
	WCDMA II_Main	RMC 12.2Kbps	Edge 2	0mm	Speed	Tablet	ON	9538	1907.6	20.37	20.50	1.030	0.06	0.076	0.078
01	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	WNC	Tablet	ON	9538	1907.6	20.37	20.50	1.030	-0.18	1.150	1.185
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	WNC	Tablet	ON	9262	1852.4	20.25	20.50	1.059	-0.18	0.864	0.915
	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	WNC	Tablet	ON	9400	1880	20.29	20.50	1.050	0.01	0.940	0.987
	WCDMA IV_Main	RMC 12.2Kbps	Bottom Face	0mm	Speed	Tablet	OFF	1413	1732.6	24.01	24.50	1.119	0.15	0.061	0.068
	WCDMA IV_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	OFF	1413	1732.6	24.01	24.50	1.119	-0.07	0.556	0.622
	WCDMA IV_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	OFF	1312	1712.4	23.95	24.50	1.135	-0.14	0.523	0.594
02	WCDMA IV_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	OFF	1513	1752.6	23.94	24.50	1.138	0.08	0.584	0.664
	WCDMA IV_Main	RMC 12.2Kbps	Edge 2	0mm	Speed	Tablet	OFF	1413	1732.6	24.01	24.50	1.119	-0.07	0.532	0.596
	WCDMA IV_Main	RMC 12.2Kbps	Edge 1	0mm	WNC	Tablet	OFF	1513	1752.6	23.94	24.50	1.138	-0.02	0.573	0.652
	WCDMA V_Main	RMC 12.2Kbps	Bottom Face	0mm	Speed	Tablet	OFF	4182	836.4	23.52	24.50	1.253	0.02	0.097	0.122
	WCDMA V_Main	RMC 12.2Kbps	Edge 1	14mm	Speed	Tablet	OFF	4182	836.4	23.52	24.50	1.253	0.18	0.072	0.090
	WCDMA V_Main	RMC 12.2Kbps	Edge 2	3mm	Speed	Tablet	OFF	4182	836.4	23.52	24.50	1.253	0.16	0.077	0.096
	WCDMA V_Main	RMC 12.2Kbps	Edge 4	0mm	Speed	Tablet	OFF	4182	836.4	23.52	24.50	1.253	0.03	0.001	0.001
	WCDMA V_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	4182	836.4	23.49	24.00	1.125	-0.07	0.939	1.056
	WCDMA V_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	4132	826.4	23.37	24.00	1.156	0.14	0.808	0.934
03	WCDMA V_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	4233	846.6	23.45	24.00	1.135	-0.08	1.030	1.169
	WCDMA V_Main	RMC 12.2Kbps	Edge 2	0mm	Speed	Tablet	ON	4182	836.4	23.49	24.00	1.125	-0.03	0.079	0.089
	WCDMA V_Main	RMC 12.2Kbps	Edge 1	0mm	WNC	Tablet	ON	4233	846.6	23.45	24.00	1.135	-0.01	0.519	0.589

**<FDD LTE SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Main	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	21350	2560	23.98	24.00	1.005	-0.05	0.046	0.047
	LTE Band 7_Main	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	OFF	21350	2560	22.90	23.00	1.023	-0.12	0.035	0.036
	LTE Band 7_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	21350	2560	23.98	24.00	1.005	-0.1	0.802	0.806
	LTE Band 7_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	20850	2510	23.77	24.00	1.054	0.14	0.859	0.906
	LTE Band 7_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	21100	2535	23.90	24.00	1.023	0.1	0.733	0.750
	LTE Band 7_Main	20M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	OFF	21350	2560	22.90	23.00	1.023	-0.03	0.651	0.666
	LTE Band 7_Main	20M	QPSK	100	0	Edge 1	0mm	Speed	Tablet	OFF	21350	2560	22.77	23.00	1.054	-0.09	0.643	0.678
	LTE Band 7_Main	20M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	21350	2560	23.98	24.00	1.005	-0.05	0.291	0.292
	LTE Band 7_Main	20M	QPSK	50	0	Edge 2	0mm	Speed	Tablet	OFF	21350	2560	22.90	23.00	1.023	0.11	0.217	0.222
	LTE Band 7C_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	20850	2510	23.67	24.00	1.079	0.05	0.838	0.904
	LTE Band 7C_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	21100	2535	23.53	24.00	1.114	-0.09	0.752	0.838
	LTE Band 7C_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	21350	2560	23.47	24.00	1.130	-0.01	0.691	0.781
	LTE Band 7_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	20850	2510	23.77	24.00	1.054	0.08	0.904	0.953
	LTE Band 7_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	21100	2535	23.90	24.00	1.023	-0.14	0.711	0.728
	LTE Band 7_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	21350	2560	23.98	24.00	1.005	0.02	0.700	0.703
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	21350	2560	23.52	24.00	1.117	-0.17	0.159	0.178
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	21350	2560	22.50	23.00	1.122	-0.18	0.123	0.138
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom Face	25mm	Speed	Tablet	OFF	21350	2560	23.52	24.00	1.117	-0.09	0.058	0.065
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom Face	25mm	Speed	Tablet	OFF	21350	2560	22.50	23.00	1.122	-0.19	0.039	0.044
	LTE Band 7_MIMO2	20M	QPSK	1	0	Edge 3	17mm	Speed	Tablet	OFF	21350	2560	23.52	24.00	1.117	-0.01	0.062	0.069
	LTE Band 7_MIMO2	20M	QPSK	50	0	Edge 3	17mm	Speed	Tablet	OFF	21350	2560	22.50	23.00	1.122	-0.08	0.041	0.046
04	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	21350	2560	20.49	21.00	1.125	-0.07	1.020	1.147
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	20850	2510	20.44	21.00	1.138	0.19	0.968	1.101
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	21100	2535	20.32	21.00	1.169	0.06	0.911	1.065
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	21350	2560	20.17	21.00	1.211	-0.12	0.924	1.119
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	20850	2510	20.05	21.00	1.245	-0.16	0.873	1.086
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	21100	2535	20.08	21.00	1.236	-0.09	0.852	1.053
	LTE Band 7_MIMO2	20M	QPSK	100	0	Bottom of Laptop	0mm	Speed	Laptop	ON	21350	2560	20.13	21.00	1.222	-0.03	0.909	1.111
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	21350	2560	13.46	14.50	1.271	0.08	0.707	0.898
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	20850	2510	13.35	14.50	1.303	-0.02	0.653	0.851
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	21100	2535	13.41	14.50	1.285	0.02	0.684	0.879
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	21350	2560	12.98	14.50	1.419	0.09	0.592	0.840
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	20850	2510	12.88	14.50	1.452	0	0.583	0.847
	LTE Band 7_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	21100	2535	12.95	14.50	1.429	0.05	0.577	0.824
	LTE Band 7_MIMO2	20M	QPSK	100	0	Bottom Face	0mm	Speed	Tablet	ON	21350	2560	12.89	14.50	1.449	0.11	0.560	0.811
	LTE Band 7_MIMO2	20M	QPSK	1	0	Edge 3	0mm	Speed	Tablet	ON	21350	2560	13.46	14.50	1.271	0.03	0.199	0.253
	LTE Band 7_MIMO2	20M	QPSK	50	0	Edge 3	0mm	Speed	Tablet	ON	21350	2560	12.98	14.50	1.419	-0.11	0.168	0.238
	LTE Band 7C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	21350	2560	20.39	21.00	1.151	-0.07	0.915	1.053
	LTE Band 7C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	20850	2510	20.35	21.00	1.161	0.02	0.894	1.038
	LTE Band 7C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	21100	2535	20.26	21.00	1.186	0.15	0.866	1.027
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	21350	2560	20.49	21.00	1.125	0.06	0.966	1.086
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	20850	2510	20.44	21.00	1.138	0.02	0.937	1.066
	LTE Band 7_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	21100	2535	20.32	21.00	1.169	0	0.905	1.058



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
05	LTE Band 12_Main	10M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	23095	707.5	23.72	24.00	1.067	0.17	0.072	0.077
	LTE Band 12_Main	10M	QPSK	25	0	Bottom Face	0mm	Speed	Tablet	OFF	23095	707.5	22.83	23.00	1.040	0.12	0.056	0.058
	LTE Band 12_Main	10M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	23095	707.5	23.72	24.00	1.067	-0.06	0.598	0.638
	LTE Band 12_Main	10M	QPSK	25	0	Edge 1	0mm	Speed	Tablet	OFF	23095	707.5	22.83	23.00	1.040	0.08	0.481	0.500
	LTE Band 12_Main	10M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	23095	707.5	23.72	24.00	1.067	-0.01	0.046	0.049
	LTE Band 12_Main	10M	QPSK	25	0	Edge 2	0mm	Speed	Tablet	OFF	23095	707.5	22.83	23.00	1.040	-0.04	0.031	0.032
	LTE Band 12_Main	10M	QPSK	1	0	Edge 4	0mm	Speed	Tablet	OFF	23095	707.5	23.72	24.00	1.067	0.06	0.001	0.001
	LTE Band 12_Main	10M	QPSK	25	0	Edge 4	0mm	Speed	Tablet	OFF	23095	707.5	22.83	23.00	1.040	0.01	0.001	0.001
	LTE Band 12_Main	10M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	23095	707.5	23.72	24.00	1.067	0.11	0.105	0.112
	LTE Band 13_Main	10M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	23230	782	23.66	24.00	1.081	-0.16	0.093	0.101
	LTE Band 13_Main	10M	QPSK	25	0	Bottom Face	0mm	Speed	Tablet	OFF	23230	782	22.55	23.00	1.109	-0.06	0.069	0.077
	LTE Band 13_Main	10M	QPSK	1	0	Edge 1	14mm	Speed	Tablet	OFF	23230	782	23.66	24.00	1.081	0.16	0.073	0.079
	LTE Band 13_Main	10M	QPSK	25	0	Edge 1	14mm	Speed	Tablet	OFF	23230	782	22.55	23.00	1.109	0.18	0.036	0.040
	LTE Band 13_Main	10M	QPSK	1	0	Edge 2	3mm	Speed	Tablet	OFF	23230	782	23.66	24.00	1.081	0.06	0.235	0.254
	LTE Band 13_Main	10M	QPSK	25	0	Edge 2	3mm	Speed	Tablet	OFF	23230	782	22.55	23.00	1.109	-0.01	0.182	0.202
	LTE Band 13_Main	10M	QPSK	1	0	Edge 4	0mm	Speed	Tablet	OFF	23230	782	23.66	24.00	1.081	0.02	0.001	0.001
	LTE Band 13_Main	10M	QPSK	25	0	Edge 4	0mm	Speed	Tablet	OFF	23230	782	22.55	23.00	1.109	-0.06	0.001	0.001
	LTE Band 13_Main	10M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	ON	23230	782	23.31	23.50	1.045	0.03	0.790	0.825
06	LTE Band 13_Main	10M	QPSK	25	0	Edge 1	0mm	Speed	Tablet	ON	23230	782	22.69	23.00	1.074	0.08	0.612	0.657
	LTE Band 13_Main	10M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	ON	23230	782	22.62	23.00	1.091	-0.14	0.605	0.660
	LTE Band 13_Main	10M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	ON	23230	782	23.31	23.50	1.045	-0.19	0.420	0.439
	LTE Band 13_Main	10M	QPSK	25	0	Edge 2	0mm	Speed	Tablet	ON	23230	782	22.69	23.00	1.074	-0.05	0.334	0.359
	LTE Band 13_Main	10M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	ON	23230	782	23.31	23.50	1.045	-0.11	0.244	0.255
	LTE Band 14_Main	10M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	23330	793	23.66	24.00	1.081	0.17	0.087	0.094
	LTE Band 14_Main	10M	QPSK	25	0	Bottom Face	0mm	Speed	Tablet	OFF	23330	793	22.60	23.00	1.096	-0.01	0.066	0.072
	LTE Band 14_Main	10M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	23330	793	23.66	24.00	1.081	0	0.872	0.943
	LTE Band 14_Main	10M	QPSK	25	0	Edge 1	0mm	Speed	Tablet	OFF	23330	793	22.60	23.00	1.096	0.03	0.707	0.775
07	LTE Band 14_Main	10M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	OFF	23330	793	22.52	23.00	1.117	0.19	0.710	0.793
	LTE Band 14_Main	10M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	23330	793	23.66	24.00	1.081	-0.14	0.366	0.396
	LTE Band 14_Main	10M	QPSK	25	0	Edge 2	0mm	Speed	Tablet	OFF	23330	793	22.60	23.00	1.096	0.1	0.295	0.323
	LTE Band 14_Main	10M	QPSK	1	0	Edge 4	0mm	Speed	Tablet	OFF	23330	793	23.66	24.00	1.081	0.06	0.001	0.001
	LTE Band 14_Main	10M	QPSK	25	0	Edge 4	0mm	Speed	Tablet	OFF	23330	793	22.60	23.00	1.096	0.11	0.001	0.001
	LTE Band 14_Main	10M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	23330	793	23.66	24.00	1.081	0.05	0.357	0.386
	LTE Band 14_Main	10M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	23330	793	23.66	24.00	1.081	0.05	0.357	0.386



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Report No. : FA2O2012

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_Main	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	26590	1905	23.53	24.00	1.114	0.18	0.055	0.061
	LTE Band 25_Main	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	OFF	26590	1905	22.57	23.00	1.104	0.01	0.029	0.032
	LTE Band 25_Main	20M	QPSK	1	0	Edge 1	14mm	Speed	Tablet	OFF	26590	1905	23.53	24.00	1.114	0.17	0.162	0.181
	LTE Band 25_Main	20M	QPSK	50	0	Edge 1	14mm	Speed	Tablet	OFF	26590	1905	22.57	23.00	1.104	-0.03	0.119	0.131
	LTE Band 25_Main	20M	QPSK	1	0	Edge 2	3mm	Speed	Tablet	OFF	26590	1905	23.53	24.00	1.114	-0.18	0.188	0.209
	LTE Band 25_Main	20M	QPSK	50	0	Edge 2	3mm	Speed	Tablet	OFF	26590	1905	22.57	23.00	1.104	0.1	0.135	0.149
08	LTE Band 25_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	ON	26590	1905	21.94	22.00	1.014	-0.13	1.130	1.146
	LTE Band 25_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	ON	26140	1860	21.90	22.00	1.023	0.19	1.080	1.105
	LTE Band 25_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	ON	26340	1880	21.68	22.00	1.076	0.01	1.050	1.130
	LTE Band 25_Main	20M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	ON	26590	1905	21.72	22.00	1.067	0.01	1.040	1.109
	LTE Band 25_Main	20M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	ON	26140	1860	21.63	22.00	1.089	0.04	1.010	1.100
	LTE Band 25_Main	20M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	ON	26340	1880	21.69	22.00	1.074	0.15	0.996	1.070
	LTE Band 25_Main	20M	QPSK	100	0	Edge 1	0mm	Speed	Tablet	ON	26590	1905	21.64	22.00	1.086	0.09	1.010	1.097
	LTE Band 25_Main	20M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	ON	26590	1905	21.94	22.00	1.014	-0.03	0.157	0.159
	LTE Band 25_Main	20M	QPSK	50	0	Edge 2	0mm	Speed	Tablet	ON	26590	1905	21.72	22.00	1.067	-0.02	0.138	0.147
	LTE Band 25_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	ON	26590	1905	21.94	22.00	1.014	0.07	1.010	1.024
	LTE Band 25_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	ON	26140	1860	21.90	22.00	1.023	0.08	0.874	0.894
	LTE Band 25_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	ON	26340	1880	21.68	22.00	1.076	-0.04	0.922	0.993
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	26590	1905	23.31	24.00	1.172	-0.17	0.221	0.259
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	26590	1905	22.23	23.00	1.194	0.08	0.178	0.213
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom Face	25mm	Speed	Tablet	OFF	26590	1905	23.31	24.00	1.172	0.13	0.071	0.083
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom Face	25mm	Speed	Tablet	OFF	26590	1905	22.23	23.00	1.194	0.08	0.052	0.062
	LTE Band 25_MIMO2	20M	QPSK	1	0	Edge 3	17mm	Speed	Tablet	OFF	26590	1905	23.31	24.00	1.172	0.15	0.078	0.091
	LTE Band 25_MIMO2	20M	QPSK	50	0	Edge 3	17mm	Speed	Tablet	OFF	26590	1905	22.23	23.00	1.194	-0.02	0.056	0.067
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	26590	1905	20.97	21.50	1.130	0.03	0.926	1.046
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	26140	1860	20.69	21.50	1.205	-0.09	0.832	1.003
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	26340	1880	20.86	21.50	1.159	0.1	0.879	1.019
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	26590	1905	20.60	21.50	1.230	0.13	0.825	1.015
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	26140	1860	20.55	21.50	1.245	-0.16	0.788	0.981
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	26340	1880	20.57	21.50	1.239	-0.09	0.801	0.992
	LTE Band 25_MIMO2	20M	QPSK	100	0	Bottom of Laptop	0mm	Speed	Laptop	ON	26590	1905	20.55	21.50	1.245	0.19	0.813	1.012
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	26590	1905	13.71	14.50	1.199	-0.02	0.686	0.823
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	26140	1860	13.57	14.50	1.239	-0.12	0.693	0.858
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	26340	1880	13.64	14.50	1.219	-0.13	0.649	0.791
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	26590	1905	13.27	14.50	1.327	-0.01	0.615	0.816
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	26140	1860	13.26	14.50	1.330	-0.05	0.620	0.825
	LTE Band 25_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	26340	1880	13.19	14.50	1.352	-0.12	0.572	0.773
	LTE Band 25_MIMO2	20M	QPSK	100	0	Bottom Face	0mm	Speed	Tablet	ON	26590	1905	13.18	14.50	1.355	-0.15	0.598	0.810
	LTE Band 25_MIMO2	20M	QPSK	1	0	Edge 3	0mm	Speed	Tablet	ON	26590	1905	13.71	14.50	1.199	-0.03	0.155	0.186
	LTE Band 25_MIMO2	20M	QPSK	50	0	Edge 3	0mm	Speed	Tablet	ON	26590	1905	13.27	14.50	1.327	0	0.129	0.171
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	26590	1905	20.97	21.50	1.130	0.11	0.874	0.987
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	26140	1860	20.69	21.50	1.205	0.1	0.805	0.970
	LTE Band 25_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	26340	1880	20.86	21.50	1.159	0.13	0.836	0.969



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Report No. : FA2O2012

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
09	LTE Band 26_Main	15M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	26865	831.5	23.41	24.00	1.146	-0.07	0.001	0.001
	LTE Band 26_Main	15M	QPSK	36	0	Bottom Face	0mm	Speed	Tablet	OFF	26865	831.5	22.44	23.00	1.138	-0.11	0.001	0.001
	LTE Band 26_Main	15M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	26865	831.5	23.41	24.00	1.146	-0.06	0.696	0.797
	LTE Band 26_Main	15M	QPSK	36	0	Edge 1	0mm	Speed	Tablet	OFF	26865	831.5	22.44	23.00	1.138	0.13	0.552	0.628
	LTE Band 26_Main	15M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	26865	831.5	23.41	24.00	1.146	0.15	0.071	0.081
	LTE Band 26_Main	15M	QPSK	36	0	Edge 2	0mm	Speed	Tablet	OFF	26865	831.5	22.44	23.00	1.138	-0.18	0.053	0.060
	LTE Band 5B_Main	10M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	20575	841.5	22.93	24.00	1.279	0.06	0.583	0.746
	LTE Band 26_Main	15M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	26865	831.5	23.41	24.00	1.146	-0.05	0.628	0.719
10	LTE Band 30_Main	10M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	27710	2310	22.42	23.00	1.143	-0.05	0.071	0.081
	LTE Band 30_Main	10M	QPSK	25	0	Bottom Face	0mm	Speed	Tablet	OFF	27710	2310	21.34	22.00	1.164	-0.18	0.054	0.063
	LTE Band 30_Main	10M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	27710	2310	22.42	23.00	1.143	-0.08	0.983	1.123
	LTE Band 30_Main	10M	QPSK	25	0	Edge 1	0mm	Speed	Tablet	OFF	27710	2310	21.34	22.00	1.164	0.03	0.855	0.995
	LTE Band 30_Main	10M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	OFF	27710	2310	21.24	22.00	1.191	-0.07	0.842	1.003
	LTE Band 30_Main	10M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	27710	2310	22.42	23.00	1.143	-0.05	0.885	1.011
	LTE Band 30_Main	10M	QPSK	25	0	Edge 2	0mm	Speed	Tablet	OFF	27710	2310	21.34	22.00	1.164	-0.15	0.733	0.853
	LTE Band 30_Main	10M	QPSK	50	0	Edge 2	0mm	Speed	Tablet	OFF	27710	2310	21.24	22.00	1.191	0.11	0.741	0.883
	LTE Band 30_Main	10M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	27710	2310	22.42	23.00	1.143	0.08	0.961	1.098
	LTE Band 30_MIMO2	10M	QPSK	1	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	27710	2310	22.07	23.00	1.239	-0.04	0.149	0.185
	LTE Band 30_MIMO2	10M	QPSK	25	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	27710	2310	20.97	22.00	1.268	0.05	0.115	0.146
	LTE Band 30_MIMO2	10M	QPSK	1	0	Bottom Face	25mm	Speed	Tablet	OFF	27710	2310	22.07	23.00	1.239	0.19	0.062	0.077
	LTE Band 30_MIMO2	10M	QPSK	25	0	Bottom Face	25mm	Speed	Tablet	OFF	27710	2310	20.97	22.00	1.268	0.12	0.041	0.052
	LTE Band 30_MIMO2	10M	QPSK	1	0	Edge 3	17mm	Speed	Tablet	OFF	27710	2310	22.07	23.00	1.239	0.19	0.058	0.072
	LTE Band 30_MIMO2	10M	QPSK	25	0	Edge 3	17mm	Speed	Tablet	OFF	27710	2310	20.97	22.00	1.268	-0.16	0.046	0.058
	LTE Band 30_MIMO2	10M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	27710	2310	20.33	21.00	1.167	0.05	0.589	0.687
	LTE Band 30_MIMO2	10M	QPSK	25	0	Bottom of Laptop	0mm	Speed	Laptop	ON	27710	2310	20.26	21.00	1.186	0.18	0.551	0.653
	LTE Band 30_MIMO2	10M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	27710	2310	14.22	15.00	1.197	0.01	0.622	0.744
	LTE Band 30_MIMO2	10M	QPSK	25	0	Bottom Face	0mm	Speed	Tablet	ON	27710	2310	14.17	15.00	1.211	0.12	0.598	0.724
	LTE Band 30_MIMO2	10M	QPSK	1	0	Edge 3	0mm	Speed	Tablet	ON	27710	2310	14.22	15.00	1.197	-0.1	0.133	0.159
	LTE Band 30_MIMO2	10M	QPSK	25	0	Edge 3	0mm	Speed	Tablet	ON	27710	2310	14.17	15.00	1.211	-0.08	0.117	0.142
	LTE Band 30_MIMO2	10M	QPSK	1	0	Bottom Face	0mm	WNC	Tablet	ON	27710	2310	14.22	15.00	1.197	0.11	0.905	1.083
	LTE Band 30_MIMO2	10M	QPSK	25	0	Bottom Face	0mm	WNC	Tablet	ON	27710	2310	14.17	15.00	1.211	0.06	0.842	1.019
	LTE Band 30_MIMO2	10M	QPSK	50	0	Bottom Face	0mm	WNC	Tablet	ON	27710	2310	13.96	15.00	1.271	-0.17	0.805	1.023



FCC SAR TEST REPORT

Report No. : FA2O2012

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Main	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	132072	1720	23.38	24.00	1.153	0.14	0.042	0.048
	LTE Band 66_Main	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	OFF	132072	1720	22.49	23.00	1.125	-0.07	0.026	0.029
	LTE Band 66_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	132072	1720	23.38	24.00	1.153	-0.11	0.447	0.516
	LTE Band 66_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	132322	1745	23.32	24.00	1.169	-0.02	0.497	0.581
	LTE Band 66_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	132572	1770	23.37	24.00	1.156	0.04	0.496	0.573
	LTE Band 66_Main	20M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	OFF	132072	1720	22.49	23.00	1.125	0.07	0.390	0.439
	LTE Band 66_Main	20M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	132072	1720	23.38	24.00	1.153	-0.09	0.337	0.389
	LTE Band 66_Main	20M	QPSK	50	0	Edge 2	0mm	Speed	Tablet	OFF	132072	1720	22.49	23.00	1.125	-0.01	0.284	0.319
	LTE Band 66B_Main	15M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	132047	1717.5	22.86	24.00	1.300	0.12	0.361	0.469
	LTE Band 66C_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	132072	1720	23.08	24.00	1.236	-0.07	0.425	0.525
	LTE Band 66_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	132322	1745	23.32	24.00	1.169	0.07	0.438	0.512
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	132322	1745	22.93	24.00	1.279	-0.11	0.177	0.226
	LTE Band 66_MIMO2	20M	QPSK	50	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	132322	1745	22.08	23.00	1.236	-0.14	0.145	0.179
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom Face	25mm	Speed	Tablet	OFF	132322	1745	22.93	24.00	1.279	-0.17	0.062	0.079
	LTE Band 66_MIMO2	20M	QPSK	50	0	Bottom Face	25mm	Speed	Tablet	OFF	132322	1745	22.08	23.00	1.236	-0.07	0.051	0.063
	LTE Band 66_MIMO2	20M	QPSK	1	0	Edge 3	17mm	Speed	Tablet	OFF	132322	1745	22.93	24.00	1.279	0.16	0.084	0.107
	LTE Band 66_MIMO2	20M	QPSK	50	0	Edge 3	17mm	Speed	Tablet	OFF	132322	1745	22.08	23.00	1.236	-0.09	0.069	0.085
11	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132322	1745	21.89	22.50	1.151	-0.04	1.010	1.162
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132072	1720	21.75	22.50	1.189	-0.06	0.956	1.136
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132572	1770	21.75	22.50	1.189	-0.13	0.937	1.114
	LTE Band 66_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132322	1745	21.36	22.00	1.159	-0.13	0.892	1.034
	LTE Band 66_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132072	1720	21.30	22.00	1.175	-0.04	0.856	1.006
	LTE Band 66_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132572	1770	21.22	22.00	1.197	-0.08	0.831	0.994
	LTE Band 66_MIMO2	20M	QPSK	100	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132322	1745	21.31	22.00	1.172	0.02	0.887	1.040
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	132572	1770	14.60	15.00	1.096	0.15	0.446	0.489
	LTE Band 66_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	132572	1770	14.18	15.00	1.208	0.07	0.399	0.482
	LTE Band 66_MIMO2	20M	QPSK	1	0	Edge 3	0mm	Speed	Tablet	ON	132572	1770	14.60	15.00	1.096	-0.19	0.209	0.229
	LTE Band 66_MIMO2	20M	QPSK	50	0	Edge 3	0mm	Speed	Tablet	ON	132572	1770	14.18	15.00	1.208	0.07	0.167	0.202
	LTE Band 66B_MIMO2	15M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132322	1745	22.80	23.50	1.175	-0.09	0.947	1.113
	LTE Band 66B_MIMO2	15M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132047	1717.5	22.53	23.50	1.250	-0.14	0.884	1.105
	LTE Band 66B_MIMO2	15M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132597	1772.5	22.76	23.50	1.186	-0.1	0.901	1.068
	LTE Band 66C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132322	1745	22.84	23.50	1.164	0.15	0.955	1.112
	LTE Band 66C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132047	1717.5	22.66	23.50	1.213	0	0.862	1.046
	LTE Band 66C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	132597	1772.5	22.73	23.50	1.194	-0.06	0.913	1.090
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	132322	1745	21.89	22.50	1.151	0.05	0.955	1.099
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	132072	1720	21.75	22.50	1.189	-0.19	0.906	1.077
	LTE Band 66_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	132572	1770	21.75	22.50	1.189	0.02	0.914	1.086
	LTE Band 71_Main	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	133297	680.5	23.54	24.00	1.112	0.18	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	OFF	133297	680.5	22.70	23.00	1.072	-0.16	0.001	0.001
12	LTE Band 71_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	133297	680.5	23.54	24.00	1.112	0.08	0.673	0.748
	LTE Band 71_Main	20M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	OFF	133297	680.5	22.70	23.00	1.072	0	0.574	0.615
	LTE Band 71_Main	20M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	133297	680.5	23.54	24.00	1.112	0.07	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	0	Edge 2	0mm	Speed	Tablet	OFF	133297	680.5	22.70	23.00	1.072	0.11	0.001	0.001
	LTE Band 71_Main	20M	QPSK	1	0	Edge 4	0mm	Speed	Tablet	OFF	133297	680.5	23.54	24.00	1.112	0.07	0.001	0.001
	LTE Band 71_Main	20M	QPSK	50	0	Edge 4	0mm	Speed	Tablet	OFF	133297	680.5	22.70	23.00	1.072	0.11	0.001	0.001
	LTE Band 71_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	133297	680.5	23.54	24.00	1.112	-0.16	0.410	0.456

**<TDD LTE SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Main	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	OFF	41055	2636.5	23.63	24.00	1.089	62.9	1.006	0.07	0.001	0.001
	LTE Band 41_Main	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	OFF	41055	2636.5	22.63	23.00	1.089	62.9	1.006	-0.11	0.001	0.001
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	41055	2636.5	23.63	24.00	1.089	62.9	1.006	0.02	0.541	0.593
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	39750	2506	23.11	24.00	1.227	62.9	1.006	-0.02	0.680	0.840
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	40185	2549.5	22.58	24.00	1.387	62.9	1.006	0	0.382	0.533
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	40620	2593	23.15	24.00	1.216	62.9	1.006	-0.04	0.245	0.300
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	41490	2680	23.16	24.00	1.213	62.9	1.006	-0.09	0.528	0.645
	LTE Band 41_Main	20M	QPSK	50	0	Edge 1	0mm	Speed	Tablet	OFF	41055	2636.5	22.63	23.00	1.089	62.9	1.006	0	0.417	0.457
	LTE Band 41_Main	20M	QPSK	100	0	Edge 1	0mm	Speed	Tablet	OFF	41055	2636.5	22.61	23.00	1.094	62.9	1.006	-0.13	0.389	0.428
	LTE Band 41_Main	20M	QPSK	1	0	Edge 2	0mm	Speed	Tablet	OFF	41055	2636.5	23.63	24.00	1.089	62.9	1.006	0.14	0.410	0.449
	LTE Band 41_Main	20M	QPSK	50	0	Edge 2	0mm	Speed	Tablet	OFF	41055	2636.5	22.63	23.00	1.089	62.9	1.006	-0.15	0.327	0.358
	LTE Band 41C_Main	20M	QPSK	1	0	Edge 1	0mm	Speed	Tablet	OFF	41055	2636.5	23.41	24.00	1.146	62.9	1.006	0.19	0.509	0.587
	LTE Band 41_Main	20M	QPSK	1	0	Edge 1	0mm	WNC	Tablet	OFF	39750	2506	23.11	24.00	1.227	62.9	1.006	-0.1	0.519	0.641
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	40620	2593	23.90	24.00	1.023	62.9	1.006	-0.02	0.164	0.169
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom of Laptop	8mm	Speed	Laptop	OFF	40620	2593	22.93	23.00	1.016	62.9	1.006	-0.1	0.131	0.134
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom Face	25mm	Speed	Tablet	OFF	40620	2593	23.90	24.00	1.023	62.9	1.006	-0.15	0.068	0.070
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom Face	25mm	Speed	Tablet	OFF	40620	2593	22.93	23.00	1.016	62.9	1.006	0.07	0.052	0.053
	LTE Band 41_MIMO2	20M	QPSK	1	0	Edge 3	17mm	Speed	Tablet	OFF	40620	2593	23.90	24.00	1.023	62.9	1.006	-0.05	0.071	0.073
	LTE Band 41_MIMO2	20M	QPSK	50	0	Edge 3	17mm	Speed	Tablet	OFF	40620	2593	22.93	23.00	1.016	62.9	1.006	-0.08	0.053	0.054
13	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	40620	2593	20.59	21.50	1.233	62.9	1.006	0.17	0.960	1.191
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	39750	2506	20.27	21.50	1.327	62.9	1.006	0.15	0.788	1.052
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	40185	2549.5	20.23	21.50	1.340	62.9	1.006	0	0.711	0.958
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	41055	2636.5	20.39	21.50	1.291	62.9	1.006	0.08	0.783	1.017
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	41490	2680	20.54	21.50	1.247	62.9	1.006	-0.07	0.762	0.956
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	40620	2593	20.39	21.50	1.291	62.9	1.006	0.1	0.835	1.085
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	39750	2506	20.06	21.50	1.393	62.9	1.006	0.13	0.728	1.020
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	40185	2549.5	20.16	21.50	1.361	62.9	1.006	-0.06	0.671	0.919
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	41055	2636.5	20.25	21.50	1.334	62.9	1.006	0.16	0.743	0.997
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	ON	41490	2680	20.37	21.50	1.297	62.9	1.006	0.07	0.722	0.942
	LTE Band 41_MIMO2	20M	QPSK	100	0	Bottom of Laptop	0mm	Speed	Laptop	ON	40620	2593	20.27	21.50	1.327	62.9	1.006	-0.18	0.844	1.127
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	40620	2593	12.99	14.00	1.262	62.9	1.006	0.17	0.737	0.936
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	39750	2506	12.55	14.00	1.396	62.9	1.006	-0.19	0.611	0.858
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	40185	2549.5	12.61	14.00	1.377	62.9	1.006	0.15	0.545	0.755
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	41055	2636.5	12.77	14.00	1.327	62.9	1.006	-0.04	0.600	0.801
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	41490	2680	12.92	14.00	1.282	62.9	1.006	-0.17	0.599	0.773
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	40620	2593	12.85	14.00	1.303	62.9	1.006	-0.14	0.705	0.924
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	39750	2506	12.51	14.00	1.409	62.9	1.006	-0.05	0.601	0.852
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	40185	2549.5	12.59	14.00	1.384	62.9	1.006	0.01	0.588	0.818
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	41055	2636.5	12.76	14.00	1.330	62.9	1.006	-0.13	0.582	0.779
	LTE Band 41_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	41490	2680	12.81	14.00	1.315	62.9	1.006	0.1	0.576	0.762
	LTE Band 41_MIMO2	20M	QPSK	100	0	Bottom Face	0mm	Speed	Tablet	ON	40620	2593	12.61	14.00	1.377	62.9	1.006	-0.07	0.622	0.862
	LTE Band 41_MIMO2	20M	QPSK	1	0	Edge 3	0mm	Speed	Tablet	ON	40620	2593	12.99	14.00	1.262	62.9	1.006	-0.17	0.225	0.286
	LTE Band 41_MIMO2	20M	QPSK	50	0	Edge 3	0mm	Speed	Tablet	ON	40620	2593	12.85	14.00	1.303	62.9	1.006	0.11	0.201	0.264
	LTE Band 41C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	40620	2593	20.55	21.50	1.245	62.9	1.006	0.11	0.918	1.149
	LTE Band 41C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	39750	2506	20.18	21.50	1.355	62.9	1.006	-0.1	0.738	1.006
	LTE Band 41C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	40185	2549.5	20.13	21.50	1.371	62.9	1.006	-0.11	0.705	0.972
	LTE Band 41C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	41055	2636.5	20.36	21.50	1.300	62.9	1.006	-0.17	0.694	0.908
	LTE Band 41C_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	ON	41490	2680	20.51	21.50	1.256	62.9	1.006	-0.16	0.762	0.963
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	40620	2593	20.59	21.50	1.233	62.9	1.006	0.03	0.766	0.950
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	39750	2506	20.27	21.50	1.327	62.9	1.006	-0.12	0.702	0.937
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	40185	2549.5	20.23	21.50	1.340	62.9	1.006	-0.15	0.678	0.914
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	41055	2636.5	20.39	21.50	1.291	62.9	1.006	0.15	0.665	0.864
	LTE Band 41_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	WNC	Laptop	ON	41490	2680	20.54	21.50	1.247	62.9	1.006	-0.09	0.723	0.907



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	55830	3609	21.57	22.00	1.104	62.9	1.006	-0.05	0.865	0.961
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	55340	3560	21.44	22.00	1.138	62.9	1.006	-0.1	0.831	0.951
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	56150	3641	21.28	22.00	1.180	62.9	1.006	-0.04	0.803	0.953
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	56640	3690	20.88	22.00	1.294	62.9	1.006	-0.08	0.726	0.945
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	55830	3609	20.58	21.00	1.102	62.9	1.006	-0.16	0.708	0.785
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	55340	3560	20.50	21.00	1.122	62.9	1.006	0.01	0.663	0.748
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	56150	3641	20.30	21.00	1.175	62.9	1.006	0.11	0.628	0.742
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	56640	3690	19.83	21.00	1.309	62.9	1.006	0.04	0.576	0.759
	LTE Band 48_MIMO2	20M	QPSK	100	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	55830	3609	20.50	21.00	1.122	62.9	1.006	-0.08	0.683	0.771
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	25mm	Speed	Tablet	OFF	55830	3609	21.57	22.00	1.104	62.9	1.006	-0.17	0.073	0.081
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom Face	25mm	Speed	Tablet	OFF	55830	3609	20.58	21.00	1.102	62.9	1.006	0.15	0.064	0.071
	LTE Band 48_MIMO2	20M	QPSK	1	0	Edge 3	17mm	Speed	Tablet	OFF	55830	3609	21.57	22.00	1.104	62.9	1.006	0.01	0.075	0.083
	LTE Band 48_MIMO2	20M	QPSK	50	0	Edge 3	17mm	Speed	Tablet	OFF	55830	3609	20.58	21.00	1.102	62.9	1.006	0.01	0.059	0.065
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	55830	3609	12.48	13.00	1.127	62.9	1.006	-0.15	0.773	0.877
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	55340	3560	12.44	13.00	1.138	62.9	1.006	-0.13	0.842	0.964
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	56150	3641	12.39	13.00	1.151	62.9	1.006	0.1	0.729	0.844
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	56640	3690	12.03	13.00	1.250	62.9	1.006	0.16	0.662	0.833
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	55830	3609	12.40	13.00	1.148	62.9	1.006	-0.09	0.722	0.834
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	55340	3560	12.35	13.00	1.161	62.9	1.006	0.08	0.775	0.906
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	56150	3641	12.33	13.00	1.167	62.9	1.006	0.13	0.685	0.804
	LTE Band 48_MIMO2	20M	QPSK	50	0	Bottom Face	0mm	Speed	Tablet	ON	56640	3690	11.91	13.00	1.285	62.9	1.006	-0.01	0.648	0.838
	LTE Band 48_MIMO2	20M	QPSK	100	0	Bottom Face	0mm	Speed	Tablet	ON	55830	3609	12.37	13.00	1.156	62.9	1.006	-0.04	0.704	0.819
	LTE Band 48_MIMO2	20M	QPSK	1	0	Edge 3	0mm	Speed	Tablet	ON	55830	3609	12.48	13.00	1.127	62.9	1.006	0.19	0.167	0.189
	LTE Band 48_MIMO2	20M	QPSK	50	0	Edge 3	0mm	Speed	Tablet	ON	55830	3609	12.40	13.00	1.148	62.9	1.006	-0.09	0.145	0.167
	LTE Band 48C_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	55830	3609	12.53	13.00	1.114	62.9	1.006	-0.03	0.727	0.815
	LTE Band 48C_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	55340	3560	12.51	13.00	1.119	62.9	1.006	0.05	0.782	0.881
	LTE Band 48C_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	56150	3641	12.33	13.00	1.167	62.9	1.006	0.17	0.711	0.835
	LTE Band 48C_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	Speed	Tablet	ON	56640	3690	11.96	13.00	1.271	62.9	1.006	-0.03	0.633	0.809
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	WNC	Tablet	ON	55340	3560	12.44	13.00	1.138	62.9	1.006	-0.01	0.856	0.980
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	WNC	Tablet	ON	55830	3609	12.48	13.00	1.127	62.9	1.006	-0.17	0.767	0.870
	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	WNC	Tablet	ON	56150	3641	12.39	13.00	1.151	62.9	1.006	0.01	0.817	0.946
14	LTE Band 48_MIMO2	20M	QPSK	1	0	Bottom Face	0mm	WNC	Tablet	ON	56640	3690	12.03	13.00	1.250	62.9	1.006	-0.06	0.812	1.021

**<5G NR SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom of Laptop	8mm	Speed	Laptop	OFF	380000	1900	22.86	24.00	1.300	0.16	0.219	0.285
	FR1 n2_MIMO2	20M	BPSK	50	28	Bottom of Laptop	8mm	Speed	Laptop	OFF	380000	1900	22.85	24.00	1.303	0.04	0.207	0.270
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom Face	25mm	Speed	Tablet	OFF	380000	1900	22.86	24.00	1.300	-0.05	0.082	0.107
	FR1 n2_MIMO2	20M	BPSK	50	28	Bottom Face	25mm	Speed	Tablet	OFF	380000	1900	22.85	24.00	1.303	-0.08	0.069	0.090
	FR1 n2_MIMO2	20M	BPSK	1	1	Edge 3	17mm	Speed	Tablet	OFF	380000	1900	22.86	24.00	1.300	-0.03	0.085	0.111
	FR1 n2_MIMO2	20M	BPSK	50	28	Edge 3	17mm	Speed	Tablet	OFF	380000	1900	22.85	24.00	1.303	0.06	0.063	0.082
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	376000	1880	21.16	21.50	1.081	-0.01	0.981	1.061
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	372000	1860	21.14	21.50	1.086	0.01	0.965	1.048
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	380000	1900	21.06	21.50	1.107	-0.1	0.972	1.076
	FR1 n2_MIMO2	20M	BPSK	50	28	Bottom of Laptop	0mm	Speed	Laptop	ON	376000	1880	21.09	21.50	1.099	-0.08	0.932	1.024
	FR1 n2_MIMO2	20M	BPSK	50	28	Bottom of Laptop	0mm	Speed	Laptop	ON	372000	1860	21.06	21.50	1.107	0.1	0.926	1.025
	FR1 n2_MIMO2	20M	BPSK	50	28	Bottom of Laptop	0mm	Speed	Laptop	ON	380000	1900	21.04	21.50	1.112	-0.01	0.925	1.028
	FR1 n2_MIMO2	20M	BPSK	100	0	Bottom of Laptop	0mm	Speed	Laptop	ON	376000	1880	21.05	21.50	1.109	-0.19	0.918	1.018
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	ON	376000	1880	14.11	14.50	1.094	-0.01	0.753	0.824
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	ON	372000	1860	14.05	14.50	1.109	0.11	0.689	0.764
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	ON	380000	1900	14.09	14.50	1.099	0.06	0.748	0.822
	FR1 n2_MIMO2	20M	BPSK	50	28	Bottom Face	0mm	Speed	Tablet	ON	376000	1880	14.09	14.50	1.099	0.03	0.705	0.775
	FR1 n2_MIMO2	20M	BPSK	100	0	Bottom Face	0mm	Speed	Tablet	ON	376000	1880	14.03	14.50	1.114	-0.12	0.694	0.773
	FR1 n2_MIMO2	20M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	ON	376000	1880	14.11	14.50	1.094	-0.01	0.182	0.199
	FR1 n2_MIMO2	20M	BPSK	50	28	Edge 3	0mm	Speed	Tablet	ON	376000	1880	14.09	14.50	1.099	0.08	0.169	0.186
15	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	380000	1900	21.06	21.50	1.107	-0.13	1.000	1.107
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	372000	1860	21.14	21.50	1.086	-0.16	0.996	1.082
	FR1 n2_MIMO2	20M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	376000	1880	21.16	21.50	1.081	0.02	1.020	1.103
	FR1 n5_Main	20M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	167300	836.5	22.08	24.00	1.556	-0.05	0.048	0.075
	FR1 n5_Main	20M	BPSK	50	28	Bottom Face	0mm	Speed	Tablet	OFF	167300	836.5	22.02	24.00	1.578	-0.08	0.039	0.062
	FR1 n5_Main	20M	BPSK	1	1	Edge 1	14mm	Speed	Tablet	OFF	167300	836.5	22.08	24.00	1.556	0.19	0.051	0.079
	FR1 n5_Main	20M	BPSK	50	28	Edge 1	14mm	Speed	Tablet	OFF	167300	836.5	22.02	24.00	1.578	0.18	0.039	0.062
	FR1 n5_Main	20M	BPSK	1	1	Edge 2	3mm	Speed	Tablet	OFF	167300	836.5	22.08	24.00	1.556	0.16	0.068	0.106
	FR1 n5_Main	20M	BPSK	50	28	Edge 2	3mm	Speed	Tablet	OFF	167300	836.5	22.02	24.00	1.578	0.13	0.047	0.074
	FR1 n5_Main	20M	BPSK	1	1	Edge 4	0mm	Speed	Tablet	OFF	167300	836.5	22.08	24.00	1.556	0.06	0.001	0.002
	FR1 n5_Main	20M	BPSK	50	28	Edge 4	0mm	Speed	Tablet	OFF	167300	836.5	22.02	24.00	1.578	-0.08	0.001	0.002
16	FR1 n5_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	167300	836.5	22.08	23.00	1.236	-0.18	0.858	1.060
	FR1 n5_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	ON	167300	836.5	22.02	23.00	1.253	0.06	0.816	1.023
	FR1 n5_Main	20M	BPSK	100	0	Edge 1	0mm	Speed	Tablet	ON	167300	836.5	21.68	23.00	1.355	-0.01	0.764	1.035
	FR1 n5_Main	20M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	ON	167300	836.5	22.08	23.00	1.236	-0.19	0.097	0.120
	FR1 n5_Main	20M	BPSK	50	28	Edge 2	0mm	Speed	Tablet	ON	167300	836.5	22.02	23.00	1.253	-0.14	0.074	0.093
	FR1 n5_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	167300	836.5	22.08	23.00	1.236	-0.09	0.472	0.583



FCC SAR TEST REPORT

Report No. : FA2O2012

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Main	20M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	507000	2535	23.19	24.00	1.205	0.09	0.068	0.082
	FR1 n7_Main	20M	BPSK	50	28	Bottom Face	0mm	Speed	Tablet	OFF	507000	2535	23.15	24.00	1.216	0.05	0.056	0.068
	FR1 n7_Main	20M	BPSK	1	1	Edge 1	14mm	Speed	Tablet	OFF	507000	2535	23.19	24.00	1.205	0.01	0.062	0.075
	FR1 n7_Main	20M	BPSK	50	28	Edge 1	14mm	Speed	Tablet	OFF	507000	2535	23.15	24.00	1.216	-0.11	0.044	0.054
	FR1 n7_Main	20M	BPSK	1	1	Edge 2	3mm	Speed	Tablet	OFF	507000	2535	23.19	24.00	1.205	-0.18	0.215	0.259
	FR1 n7_Main	20M	BPSK	50	28	Edge 2	3mm	Speed	Tablet	OFF	507000	2535	23.15	24.00	1.216	0.03	0.208	0.253
	FR1 n7_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	507000	2535	23.19	23.50	1.074	-0.06	0.878	0.943
17	FR1 n7_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	502000	2510	23.15	23.50	1.084	-0.13	1.020	1.106
	FR1 n7_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	512000	2560	23.14	23.50	1.086	-0.19	0.823	0.894
	FR1 n7_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	ON	507000	2535	23.15	23.50	1.084	0.02	0.851	0.922
	FR1 n7_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	ON	502000	2510	23.09	23.50	1.099	-0.03	0.983	1.080
	FR1 n7_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	ON	512000	2560	23.07	23.50	1.104	-0.04	0.829	0.915
	FR1 n7_Main	20M	BPSK	100	0	Edge 1	0mm	Speed	Tablet	ON	507000	2535	22.67	23.50	1.211	0.03	0.785	0.950
	FR1 n7_Main	20M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	ON	507000	2535	23.19	23.50	1.074	-0.11	0.354	0.380
	FR1 n7_Main	20M	BPSK	50	28	Edge 2	0mm	Speed	Tablet	ON	507000	2535	23.15	23.50	1.084	0.09	0.319	0.346
	FR1 n7_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	502000	2510	23.15	23.50	1.084	0.03	0.905	0.981
	FR1 n7_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	507000	2535	23.19	23.50	1.074	0.05	0.847	0.910
	FR1 n7_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	512000	2560	23.14	23.50	1.086	-0.14	0.859	0.933
	FR1 n25_Main	20M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	381000	1905	23.34	24.00	1.164	-0.09	0.059	0.069
	FR1 n25_Main	20M	BPSK	50	28	Bottom Face	0mm	Speed	Tablet	OFF	381000	1905	23.29	24.00	1.178	-0.11	0.041	0.048
	FR1 n25_Main	20M	BPSK	1	1	Edge 1	14mm	Speed	Tablet	OFF	381000	1905	23.34	24.00	1.164	-0.08	0.138	0.161
	FR1 n25_Main	20M	BPSK	50	28	Edge 1	14mm	Speed	Tablet	OFF	381000	1905	23.29	24.00	1.178	-0.01	0.125	0.147
	FR1 n25_Main	20M	BPSK	1	1	Edge 2	3mm	Speed	Tablet	OFF	381000	1905	23.34	24.00	1.164	0.01	0.083	0.097
	FR1 n25_Main	20M	BPSK	50	28	Edge 2	3mm	Speed	Tablet	OFF	381000	1905	23.29	24.00	1.178	-0.02	0.067	0.079
18	FR1 n25_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	381000	1905	22.35	23.00	1.161	-0.08	0.980	1.138
	FR1 n25_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	372000	1860	22.29	23.00	1.178	-0.11	0.749	0.882
	FR1 n25_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	376500	1882.5	22.07	23.00	1.239	0.06	0.788	0.976
	FR1 n25_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	ON	381000	1905	22.28	23.00	1.180	0.14	0.916	1.081
	FR1 n25_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	ON	372000	1860	22.18	23.00	1.208	0.04	0.750	0.906
	FR1 n25_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	ON	376500	1882.5	22.05	23.00	1.245	-0.1	0.776	0.966
	FR1 n25_Main	20M	BPSK	100	0	Edge 1	0mm	Speed	Tablet	ON	381000	1905	21.94	23.00	1.276	0.12	0.864	1.103
	FR1 n25_Main	20M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	ON	381000	1905	22.35	23.00	1.161	0.1	0.063	0.073
	FR1 n25_Main	20M	BPSK	50	28	Edge 2	0mm	Speed	Tablet	ON	381000	1905	22.28	23.00	1.180	0	0.045	0.053
	FR1 n25_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	381000	1905	22.35	23.00	1.161	-0.13	0.782	0.908
	FR1 n25_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	372000	1860	22.29	23.00	1.178	0.05	0.738	0.870
	FR1 n25_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	376500	1882.5	22.07	23.00	1.239	0.14	0.722	0.894
	FR1 n30_Main	10M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	462000	2310	22.16	23.00	1.213	0.19	0.058	0.070
	FR1 n30_Main	10M	BPSK	25	14	Bottom Face	0mm	Speed	Tablet	OFF	462000	2310	22.06	23.00	1.242	0.08	0.042	0.052
19	FR1 n30_Main	10M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	462000	2310	22.16	23.00	1.213	-0.19	0.825	1.001
	FR1 n30_Main	10M	BPSK	25	14	Edge 1	0mm	Speed	Tablet	OFF	462000	2310	22.06	23.00	1.242	0.01	0.776	0.964
	FR1 n30_Main	10M	BPSK	50	0	Edge 1	0mm	Speed	Tablet	OFF	462000	2310	21.96	22.50	1.132	0.06	0.813	0.921
	FR1 n30_Main	10M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	OFF	462000	2310	22.16	23.00	1.213	0.08	0.439	0.533
	FR1 n30_Main	10M	BPSK	25	14	Edge 2	0mm	Speed	Tablet	OFF	462000	2310	22.06	23.00	1.242	0.06	0.415	0.515
	FR1 n30_Main	10M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	OFF	462000	2310	22.16	23.00	1.213	-0.08	0.703	0.853



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n66_Main	40M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	349000	1745	22.87	24.00	1.297	-0.02	0.036	0.047
	FR1 n66_Main	40M	BPSK	108	54	Bottom Face	0mm	Speed	Tablet	OFF	349000	1745	22.79	24.00	1.321	-0.08	0.029	0.038
	FR1 n66_Main	40M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	349000	1745	22.87	24.00	1.297	-0.02	0.224	0.291
	FR1 n66_Main	40M	BPSK	108	54	Edge 1	0mm	Speed	Tablet	OFF	349000	1745	22.79	24.00	1.321	0.01	0.209	0.276
	FR1 n66_Main	40M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	OFF	349000	1745	22.87	24.00	1.297	-0.14	0.384	0.498
	FR1 n66_Main	40M	BPSK	108	54	Edge 2	0mm	Speed	Tablet	OFF	349000	1745	22.79	24.00	1.321	-0.02	0.361	0.477
	FR1 n66_Main	40M	BPSK	1	1	Edge 2	0mm	WNC	Tablet	OFF	349000	1745	22.87	24.00	1.297	-0.14	0.417	0.541
	FR1 n66_MIMO2	40M	BPSK	1	1	Bottom of Laptop	8mm	Speed	Laptop	OFF	349000	1745	23.16	24.00	1.213	-0.02	0.180	0.218
	FR1 n66_MIMO2	40M	BPSK	108	54	Bottom of Laptop	8mm	Speed	Laptop	OFF	349000	1745	22.92	24.00	1.282	0.16	0.134	0.172
	FR1 n66_MIMO2	40M	BPSK	1	1	Bottom Face	25mm	Speed	Tablet	OFF	349000	1745	23.16	24.00	1.213	-0.07	0.056	0.068
	FR1 n66_MIMO2	40M	BPSK	108	54	Bottom Face	25mm	Speed	Tablet	OFF	349000	1745	22.92	24.00	1.282	-0.03	0.035	0.045
	FR1 n66_MIMO2	40M	BPSK	1	1	Edge 3	17mm	Speed	Tablet	OFF	349000	1745	23.16	24.00	1.213	0.04	0.083	0.101
	FR1 n66_MIMO2	40M	BPSK	108	54	Edge 3	17mm	Speed	Tablet	OFF	349000	1745	22.92	24.00	1.282	-0.03	0.062	0.080
	FR1 n66_MIMO2	40M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	349000	1745	21.77	22.50	1.183	-0.07	0.865	1.023
	FR1 n66_MIMO2	40M	BPSK	108	54	Bottom of Laptop	0mm	Speed	Laptop	ON	349000	1745	21.75	22.50	1.189	-0.18	0.844	1.003
	FR1 n66_MIMO2	40M	BPSK	216	0	Bottom of Laptop	0mm	Speed	Laptop	ON	349000	1745	21.71	22.50	1.199	-0.18	0.838	1.005
	FR1 n66_MIMO2	40M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	ON	349000	1745	13.78	14.00	1.052	0.15	0.977	1.028
	FR1 n66_MIMO2	40M	BPSK	108	54	Bottom Face	0mm	Speed	Tablet	ON	349000	1745	13.75	14.00	1.059	0.1	0.942	0.998
	FR1 n66_MIMO2	40M	BPSK	216	0	Bottom Face	0mm	Speed	Tablet	ON	349000	1745	13.68	14.00	1.076	0.1	0.943	1.015
	FR1 n66_MIMO2	40M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	ON	349000	1745	13.78	14.00	1.052	-0.03	0.273	0.287
	FR1 n66_MIMO2	40M	BPSK	108	54	Edge 3	0mm	Speed	Tablet	ON	349000	1745	13.75	14.00	1.059	-0.04	0.258	0.273
20	FR1 n66_MIMO2	40M	BPSK	1	1	Bottom Face	0mm	WNC	Tablet	ON	349000	1745	13.78	14.00	1.052	0.13	1.070	1.126
	FR1 n71_Main	20M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	136100	680.5	22.61	24.00	1.377	0.12	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Bottom Face	0mm	Speed	Tablet	OFF	136100	680.5	22.59	24.00	1.384	-0.14	0.001	0.001
	FR1 n71_Main	20M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	136100	680.5	22.61	24.00	1.377	0	0.132	0.182
	FR1 n71_Main	20M	BPSK	50	28	Edge 1	0mm	Speed	Tablet	OFF	136100	680.5	22.59	24.00	1.384	-0.07	0.119	0.165
	FR1 n71_Main	20M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	OFF	136100	680.5	22.61	24.00	1.377	-0.04	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Edge 2	0mm	Speed	Tablet	OFF	136100	680.5	22.59	24.00	1.384	-0.01	0.001	0.001
	FR1 n71_Main	20M	BPSK	1	1	Edge 4	0mm	Speed	Tablet	OFF	136100	680.5	22.61	24.00	1.377	0.03	0.001	0.001
	FR1 n71_Main	20M	BPSK	50	28	Edge 4	0mm	Speed	Tablet	OFF	136100	680.5	22.59	24.00	1.384	0.07	0.001	0.001
21	FR1 n71_Main	20M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	OFF	136100	680.5	22.61	24.00	1.377	-0.11	0.190	0.262



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41_Main	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	518598	2592.99	23.31	24.00	1.172	-0.03	0.001	0.001
	FR1 n41_Main	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	518598	2592.99	23.29	24.00	1.178	0	0.001	0.001
	FR1 n41_Main	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	23.31	24.00	1.172	-0.06	0.715	0.838
	FR1 n41_Main	100M	BPSK	135	69	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	23.29	24.00	1.178	-0.02	0.689	0.811
	FR1 n41_Main	100M	BPSK	270	0	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	22.74	23.50	1.191	0.05	0.623	0.742
	FR1 n41_Main	100M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	OFF	518598	2592.99	23.31	24.00	1.172	0.14	0.330	0.387
	FR1 n41_Main	100M	BPSK	135	69	Edge 2	0mm	Speed	Tablet	OFF	518598	2592.99	23.29	24.00	1.178	0.11	0.315	0.371
	FR1 n41_HPUE_Main	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	26.02	27.00	1.253	0.08	0.633	0.793
	FR1 n41_Main	100M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	OFF	518598	2592.99	23.31	24.00	1.172	-0.16	0.654	0.767
	FR1 n41_MIMO2	100M	BPSK	1	1	Bottom of Laptop	8mm	Speed	Laptop	OFF	518598	2592.99	22.67	24.00	1.358	0.17	0.186	0.253
	FR1 n41_MIMO2	100M	BPSK	135	69	Bottom of Laptop	8mm	Speed	Laptop	OFF	518598	2592.99	22.64	24.00	1.368	-0.01	0.153	0.209
	FR1 n41_MIMO2	100M	BPSK	1	1	Bottom Face	25mm	Speed	Tablet	OFF	518598	2592.99	22.67	24.00	1.358	0.02	0.063	0.086
	FR1 n41_MIMO2	100M	BPSK	135	69	Bottom Face	25mm	Speed	Tablet	OFF	518598	2592.99	22.64	24.00	1.368	-0.19	0.039	0.053
	FR1 n41_MIMO2	100M	BPSK	1	1	Edge 3	17mm	Speed	Tablet	OFF	518598	2592.99	22.67	24.00	1.358	-0.11	0.078	0.106
	FR1 n41_MIMO2	100M	BPSK	135	69	Edge 3	17mm	Speed	Tablet	OFF	518598	2592.99	22.64	24.00	1.368	0.05	0.056	0.077
	FR1 n41_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	518598	2592.99	19.79	20.50	1.178	-0.08	0.957	1.127
	FR1 n41_MIMO2	100M	BPSK	135	69	Bottom of Laptop	0mm	Speed	Laptop	ON	518598	2592.99	19.73	20.50	1.194	0	0.924	1.103
	FR1 n41_MIMO2	100M	BPSK	270	0	Bottom of Laptop	0mm	Speed	Laptop	ON	518598	2592.99	19.64	20.50	1.219	0	0.913	1.113
	FR1 n41_MIMO2	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	ON	518598	2592.99	12.65	13.50	1.216	-0.1	0.590	0.718
	FR1 n41_MIMO2	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	ON	518598	2592.99	12.59	13.50	1.233	-0.05	0.556	0.686
	FR1 n41_MIMO2	100M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	ON	518598	2592.99	12.65	13.50	1.216	0.15	0.184	0.224
	FR1 n41_MIMO2	100M	BPSK	135	69	Edge 3	0mm	Speed	Tablet	ON	518598	2592.99	12.59	13.50	1.233	0.19	0.169	0.208
	FR1 n41_HPUE_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	518598	2592.99	22.69	23.50	1.205	0.11	0.893	1.076
22	FR1 n41_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	518598	2592.99	19.79	20.50	1.178	-0.02	1.010	1.189
	FR1 n41_HPUE_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	518598	2592.99	22.69	23.50	1.205	0.06	0.936	1.128
	FR1 n41_MIMO3	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	OFF	518598	2592.99	4.25	5.50	1.334	-0.07	0.105	0.140
	FR1 n41_MIMO3	100M	BPSK	135	0	Bottom of Laptop	0mm	Speed	Laptop	OFF	518598	2592.99	3.83	5.50	1.469	-0.01	0.084	0.123
	FR1 n41_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	518598	2592.99	4.25	5.50	1.334	-0.08	0.270	0.360
	FR1 n41_MIMO3	100M	BPSK	135	0	Bottom Face	0mm	Speed	Tablet	OFF	518598	2592.99	3.83	5.50	1.469	0.08	0.225	0.331
	FR1 n41_MIMO3	100M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	OFF	518598	2592.99	4.25	5.50	1.334	0.16	0.093	0.124
	FR1 n41_MIMO3	100M	BPSK	135	0	Edge 3	0mm	Speed	Tablet	OFF	518598	2592.99	3.83	5.50	1.469	-0.08	0.074	0.109
	FR1 n41_HPUE_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	518598	2592.99	7.25	8.50	1.334	-0.09	0.244	0.325
	FR1 n41_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	WNC	Tablet	OFF	518598	2592.99	4.25	5.50	1.334	0.15	0.231	0.308
	FR1 n41_Aux	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	518598	2592.99	21.01	22.00	1.256	-0.08	0.078	0.098
	FR1 n41_Aux	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	518598	2592.99	21.00	22.00	1.259	0.17	0.069	0.087
	FR1 n41_Aux	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	21.01	22.00	1.256	-0.06	0.859	1.079
	FR1 n41_Aux	100M	BPSK	135	69	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	21.00	22.00	1.259	0.17	0.841	1.059
	FR1 n41_Aux	100M	BPSK	270	0	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	20.58	22.00	1.387	0.17	0.746	1.035
	FR1 n41_Aux	100M	BPSK	1	1	Edge 4	0mm	Speed	Tablet	OFF	518598	2592.99	21.01	22.00	1.256	0.07	0.261	0.328
	FR1 n41_Aux	100M	BPSK	135	69	Edge 4	0mm	Speed	Tablet	OFF	518598	2592.99	21.00	22.00	1.259	-0.18	0.237	0.298
	FR1 n41_HPUE_Aux	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	518598	2592.99	23.88	25.00	1.294	0.13	0.756	0.978
	FR1 n41_Aux	100M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	OFF	518598	2592.99	21.01	22.00	1.256	0.03	0.715	0.898



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_Main	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	656000	3840	23.00	24.00	1.259	-0.16	0.091	0.115
	FR1 n77_Main	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	656000	3840	22.73	24.00	1.340	-0.17	0.081	0.109
	FR1 n77_Main	100M	BPSK	1	1	Edge 1	14mm	Speed	Tablet	OFF	656000	3840	23.00	24.00	1.259	-0.06	0.178	0.224
	FR1 n77_Main	100M	BPSK	135	69	Edge 1	14mm	Speed	Tablet	OFF	656000	3840	22.73	24.00	1.340	0.11	0.156	0.209
	FR1 n77_Main	100M	BPSK	1	1	Edge 2	3mm	Speed	Tablet	OFF	656000	3840	23.00	24.00	1.259	0.06	0.520	0.655
	FR1 n77_Main	100M	BPSK	135	69	Edge 2	3mm	Speed	Tablet	OFF	656000	3840	22.73	24.00	1.340	-0.18	0.479	0.642
	FR1 n77_Main	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	656000	3840	17.50	18.50	1.259	-0.09	0.748	0.942
	FR1 n77_Main	100M	BPSK	135	69	Edge 1	0mm	Speed	Tablet	ON	656000	3840	17.49	18.50	1.262	0.02	0.732	0.924
	FR1 n77_Main	100M	BPSK	270	0	Edge 1	0mm	Speed	Tablet	ON	656000	3840	17.42	18.50	1.282	0.02	0.715	0.917
	FR1 n77_Main	100M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	ON	656000	3840	17.50	18.50	1.259	0.05	0.439	0.553
	FR1 n77_Main	100M	BPSK	135	69	Edge 2	0mm	Speed	Tablet	ON	656000	3840	17.49	18.50	1.262	0.12	0.415	0.524
	FR1 n77_HPUE_Main	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	656000	3840	20.38	21.50	1.294	0.12	0.697	0.902
	FR1 n77_Main	100M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	656000	3840	17.50	18.50	1.259	-0.11	0.797	1.003
	FR1 n77_HPUE_Main	100M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	656000	3840	20.38	21.50	1.294	0.14	0.712	0.921
	FR1 n77_Main	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	633332	3499.98	23.12	24.00	1.225	-0.19	0.001	0.001
	FR1 n77_Main	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	633332	3499.98	22.75	24.00	1.334	0.02	0.001	0.001
	FR1 n77_Main	100M	BPSK	1	1	Edge 1	14mm	Speed	Tablet	OFF	633332	3499.98	23.12	24.00	1.225	0.02	0.001	0.001
	FR1 n77_Main	100M	BPSK	135	69	Edge 1	14mm	Speed	Tablet	OFF	633332	3499.98	22.75	24.00	1.334	-0.05	0.001	0.001
	FR1 n77_Main	100M	BPSK	1	1	Edge 2	3mm	Speed	Tablet	OFF	633332	3499.98	23.12	24.00	1.225	0.19	0.102	0.125
	FR1 n77_Main	100M	BPSK	135	69	Edge 2	3mm	Speed	Tablet	OFF	633332	3499.98	22.75	24.00	1.334	-0.04	0.089	0.119
	FR1 n77_Main	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	633332	3499.98	17.40	18.50	1.288	-0.03	0.162	0.209
	FR1 n77_Main	100M	BPSK	135	0	Edge 1	0mm	Speed	Tablet	ON	633332	3499.98	16.88	18.50	1.452	0.12	0.133	0.193
	FR1 n77_Main	100M	BPSK	1	1	Edge 2	0mm	Speed	Tablet	ON	633332	3499.98	17.40	18.50	1.288	-0.06	0.061	0.079
	FR1 n77_Main	100M	BPSK	135	0	Edge 2	0mm	Speed	Tablet	ON	633332	3499.98	16.88	18.50	1.452	0.01	0.043	0.062
	FR1 n77_HPUE_Main	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	ON	633332	3499.98	20.55	21.50	1.245	-0.05	0.131	0.163
	FR1 n77_Main	100M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	ON	633332	3499.98	17.40	18.50	1.288	0.19	0.135	0.174



FCC SAR TEST REPORT

Report No. : FA2O2012

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom of Laptop	8mm	Speed	Laptop	OFF	656000	3840	23.02	24.00	1.253	0.05	0.386	0.484
	FR1 n77_MIMO2	100M	BPSK	135	69	Bottom of Laptop	8mm	Speed	Laptop	OFF	656000	3840	22.92	24.00	1.282	-0.01	0.345	0.442
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom Face	25mm	Speed	Tablet	OFF	656000	3840	23.02	24.00	1.253	-0.02	0.294	0.368
	FR1 n77_MIMO2	100M	BPSK	135	69	Bottom Face	25mm	Speed	Tablet	OFF	656000	3840	22.92	24.00	1.282	0.05	0.263	0.337
	FR1 n77_MIMO2	100M	BPSK	1	1	Edge 3	17mm	Speed	Tablet	OFF	656000	3840	23.02	24.00	1.253	0.19	0.184	0.231
	FR1 n77_MIMO2	100M	BPSK	135	69	Edge 3	17mm	Speed	Tablet	OFF	656000	3840	22.92	24.00	1.282	-0.09	0.150	0.192
23	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	656000	3840	17.91	18.50	1.146	-0.14	0.988	1.132
	FR1 n77_MIMO2	100M	BPSK	135	0	Bottom of Laptop	0mm	Speed	Laptop	ON	656000	3840	17.86	18.50	1.159	-0.03	0.916	1.061
	FR1 n77_MIMO2	100M	BPSK	270	0	Bottom of Laptop	0mm	Speed	Laptop	ON	656000	3840	17.81	18.50	1.172	-0.03	0.924	1.083
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	ON	656000	3840	8.90	10.00	1.288	-0.09	0.682	0.879
	FR1 n77_MIMO2	100M	BPSK	135	0	Bottom Face	0mm	Speed	Tablet	ON	656000	3840	8.44	10.00	1.432	0.11	0.653	0.935
	FR1 n77_MIMO2	100M	BPSK	270	0	Bottom Face	0mm	Speed	Tablet	ON	656000	3840	8.76	10.00	1.330	0.11	0.628	0.836
	FR1 n77_MIMO2	100M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	ON	656000	3840	8.90	10.00	1.288	-0.15	0.137	0.176
	FR1 n77_MIMO2	100M	BPSK	135	0	Edge 3	0mm	Speed	Tablet	ON	656000	3840	8.44	10.00	1.432	0.1	0.122	0.175
	FR1 n77_HPUE_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	656000	3840	20.73	21.50	1.194	0.06	0.887	1.059
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	656000	3840	17.91	18.50	1.146	0.05	0.811	0.929
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom of Laptop	8mm	Speed	Laptop	OFF	633332	3499.98	22.97	24.00	1.268	-0.18	0.273	0.346
	FR1 n77_MIMO2	100M	BPSK	135	69	Bottom of Laptop	8mm	Speed	Laptop	OFF	633332	3499.98	22.80	24.00	1.318	0.12	0.238	0.314
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom Face	25mm	Speed	Tablet	OFF	633332	3499.98	22.97	24.00	1.268	0.07	0.202	0.256
	FR1 n77_MIMO2	100M	BPSK	135	69	Bottom Face	25mm	Speed	Tablet	OFF	633332	3499.98	22.80	24.00	1.318	0.19	0.186	0.245
	FR1 n77_MIMO2	100M	BPSK	1	1	Edge 3	17mm	Speed	Tablet	OFF	633332	3499.98	22.97	24.00	1.268	0.08	0.149	0.189
	FR1 n77_MIMO2	100M	BPSK	135	69	Edge 3	17mm	Speed	Tablet	OFF	633332	3499.98	22.80	24.00	1.318	0.12	0.133	0.175
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	ON	633332	3499.98	18.93	19.50	1.140	-0.16	0.764	0.871
	FR1 n77_MIMO2	100M	BPSK	135	0	Bottom of Laptop	0mm	Speed	Laptop	ON	633332	3499.98	18.82	19.50	1.169	-0.02	0.729	0.853
	FR1 n77_MIMO2	100M	BPSK	270	0	Bottom of Laptop	0mm	Speed	Laptop	ON	633332	3499.98	18.77	19.50	1.183	0.11	0.713	0.844
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	ON	633332	3499.98	8.84	10.00	1.306	-0.07	0.435	0.568
	FR1 n77_MIMO2	100M	BPSK	135	0	Bottom Face	0mm	Speed	Tablet	ON	633332	3499.98	8.76	10.00	1.330	0.19	0.414	0.551
	FR1 n77_MIMO2	100M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	ON	633332	3499.98	8.84	10.00	1.306	-0.11	0.127	0.166
	FR1 n77_MIMO2	100M	BPSK	135	0	Edge 3	0mm	Speed	Tablet	ON	633332	3499.98	8.76	10.00	1.330	-0.02	0.109	0.145
	FR1 n77_HPUE_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	633332	3499.98	21.76	22.50	1.186	-0.06	0.715	0.848
	FR1 n77_MIMO2	100M	BPSK	1	1	Bottom of Laptop	0mm	WNC	Laptop	ON	633332	3499.98	18.93	19.50	1.140	0.05	0.505	0.576
	FR1 n77_MIMO3	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	OFF	656000	3840	6.69	7.00	1.074	0.17	0.041	0.044
	FR1 n77_MIMO3	100M	BPSK	135	69	Bottom of Laptop	0mm	Speed	Tablet	OFF	656000	3840	6.46	7.00	1.132	0.14	0.033	0.037
	FR1 n77_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	656000	3840	6.69	7.00	1.074	-0.09	0.280	0.301
	FR1 n77_MIMO3	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	656000	3840	6.46	7.00	1.132	-0.17	0.235	0.266
	FR1 n77_MIMO3	100M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	OFF	656000	3840	6.69	7.00	1.074	0.02	0.042	0.045
	FR1 n77_MIMO3	100M	BPSK	135	69	Edge 3	0mm	Speed	Tablet	OFF	656000	3840	6.46	7.00	1.132	-0.02	0.028	0.032
	FR1 n77_HPUE_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	656000	3840	9.49	10.00	1.125	0.07	0.242	0.272
	FR1 n77_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	WNC	Tablet	OFF	656000	3840	6.69	7.00	1.074	0.08	0.252	0.271
	FR1 n77_MIMO3	100M	BPSK	1	1	Bottom of Laptop	0mm	Speed	Laptop	OFF	633332	3499.98	6.21	7.00	1.199	-0.04	0.038	0.046
	FR1 n77_MIMO3	100M	BPSK	135	69	Bottom of Laptop	0mm	Speed	Tablet	OFF	633332	3499.98	6.05	7.00	1.245	0.12	0.025	0.031
	FR1 n77_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	633332	3499.98	6.21	7.00	1.199	-0.17	0.225	0.270
	FR1 n77_MIMO3	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	633332	3499.98	6.05	7.00	1.245	0.07	0.204	0.254
	FR1 n77_MIMO3	100M	BPSK	1	1	Edge 3	0mm	Speed	Tablet	OFF	633332	3499.98	6.21	7.00	1.199	0	0.047	0.056
	FR1 n77_MIMO3	100M	BPSK	135	69	Edge 3	0mm	Speed	Tablet	OFF	633332	3499.98	6.05	7.00	1.245	0.08	0.031	0.039
	FR1 n77_HPUE_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	633332	3499.98	9.15	10.00	1.216	0.04	0.209	0.254
	FR1 n77_MIMO3	100M	BPSK	1	1	Bottom Face	0mm	WNC	Tablet	OFF	633332	3499.98	6.21	7.00	1.199	0.01	0.216	0.259



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_Aux	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	656000	3840	20.90	22.00	1.288	0.06	0.040	0.052
	FR1 n77_Aux	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	656000	3840	20.88	22.00	1.294	0.01	0.033	0.043
	FR1 n77_Aux	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	656000	3840	20.90	22.00	1.288	-0.16	0.516	0.665
	FR1 n77_Aux	100M	BPSK	135	69	Edge 1	0mm	Speed	Tablet	OFF	656000	3840	20.88	22.00	1.294	0.13	0.505	0.654
	FR1 n77_Aux	100M	BPSK	270	0	Edge 1	0mm	Speed	Tablet	OFF	656000	3840	20.81	22.00	1.315	0.13	0.484	0.637
	FR1 n77_Aux	100M	BPSK	1	1	Edge 4	0mm	Speed	Tablet	OFF	656000	3840	20.90	22.00	1.288	-0.17	0.080	0.103
	FR1 n77_Aux	100M	BPSK	135	69	Edge 4	0mm	Speed	Tablet	OFF	656000	3840	20.88	22.00	1.294	-0.07	0.067	0.087
	FR1 n77_HPUE_Aux	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	656000	3840	23.71	25.00	1.346	-0.03	0.462	0.622
	FR1 n77_Aux	100M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	OFF	656000	3840	20.90	22.00	1.288	0.02	0.341	0.439
	FR1 n77_Aux	100M	BPSK	1	1	Bottom Face	0mm	Speed	Tablet	OFF	633332	3499.98	20.27	22.00	1.489	-0.08	0.001	0.001
	FR1 n77_Aux	100M	BPSK	135	69	Bottom Face	0mm	Speed	Tablet	OFF	633332	3499.98	20.25	22.00	1.496	0.02	0.001	0.001
	FR1 n77_Aux	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	633332	3499.98	20.27	22.00	1.489	-0.08	0.565	0.841
	FR1 n77_Aux	100M	BPSK	135	69	Edge 1	0mm	Speed	Tablet	OFF	633332	3499.98	20.25	22.00	1.496	0.16	0.538	0.805
	FR1 n77_Aux	100M	BPSK	270	0	Edge 1	0mm	Speed	Tablet	OFF	633332	3499.98	20.06	22.00	1.563	0.16	0.516	0.807
	FR1 n77_Aux	100M	BPSK	1	1	Edge 4	0mm	Speed	Tablet	OFF	633332	3499.98	20.27	22.00	1.489	-0.1	0.060	0.089
	FR1 n77_Aux	100M	BPSK	135	69	Edge 4	0mm	Speed	Tablet	OFF	633332	3499.98	20.25	22.00	1.496	-0.02	0.045	0.067
	FR1 n77_HPUE_Aux	100M	BPSK	1	1	Edge 1	0mm	Speed	Tablet	OFF	633332	3499.98	23.36	25.00	1.459	-0.17	0.528	0.770
	FR1 n77_Aux	100M	BPSK	1	1	Edge 1	0mm	WNC	Tablet	OFF	633332	3499.98	20.27	22.00	1.489	0.18	0.419	0.624

15.2 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna Vendor	Configuration (Tablet / Laptop)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	WNC	Tablet	ON	9538	1907.6	20.37	20.50	1.030			-0.18	1.150	-	1.185
2nd	WCDMA II_Main	RMC 12.2Kbps	Edge 1	0mm	WNC	Tablet	ON	9538	1907.6	20.37	20.50	1.030			0.02	1.110	1.04	1.144
1st	WCDMA V_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	4233	846.6	23.45	24.00	1.135			-0.08	1.030	-	1.169
2nd	WCDMA V_Main	RMC 12.2Kbps	Edge 1	0mm	Speed	Tablet	ON	4233	846.6	23.45	24.00	1.135			0.17	0.984	1.05	1.117
1st	LTE Band 7_MIMO2	20M_QPSK_1_0	Bottom of Laptop	0mm	Speed	Laptop	ON	21350	2560	20.49	21.00	1.125			-0.07	1.020	-	1.147
2nd	LTE Band 7_MIMO2	20M_QPSK_1_0	Bottom of Laptop	0mm	Speed	Laptop	ON	21350	2560	20.49	21.00	1.125			0.1	0.985	1.04	1.108
1st	LTE Band 14_Main	10M_QPSK_1_0	Edge 1	0mm	Speed	Tablet	OFF	23330	793	23.66	24.00	1.081			0	0.872	-	0.943
2nd	LTE Band 14_Main	10M_QPSK_1_0	Edge 1	0mm	Speed	Tablet	OFF	23330	793	23.66	24.00	1.081			-0.04	0.846	1.03	0.915
1st	LTE Band 30_Main	10M_QPSK_1_0	Edge 1	0mm	Speed	Tablet	OFF	27710	2310	22.42	23.00	1.143			-0.08	0.983	-	1.123
2nd	LTE Band 30_Main	10M_QPSK_1_0	Edge 1	0mm	Speed	Tablet	OFF	27710	2310	22.42	23.00	1.143			0.05	0.962	1.02	1.099
1st	LTE Band 48_MIMO2	20M_QPSK_1_0	Bottom of Laptop	0mm	Speed	Laptop	OFF	55830	3609	21.57	22.00	1.104	62.9	1.006	-0.05	0.865	-	0.961
2nd	LTE Band 48_MIMO2	20M_QPSK_1_0	Bottom of Laptop	0mm	Speed	Laptop	OFF	55830	3609	21.57	22.00	1.104	62.9	1.006	0.04	0.845	1.02	0.939
1st	FR1 n66_MIMO2	40M_BPSK_1_1	Bottom Face	0mm	WNC	Tablet	ON	349000	1745	13.78	14.00	1.052			0.13	1.070	-	1.126
2nd	FR1 n66_MIMO2	40M_BPSK_1_1	Bottom Face	0mm	WNC	Tablet	ON	349000	1745	13.78	14.00	1.052			0.01	1.010	1.06	1.062
1st	FR1 n77_MIMO2	100M_BPSK_1_1	Bottom of Laptop	0mm	Speed	Laptop	ON	656000	3840	17.91	18.50	1.146			-0.14	0.988	-	1.132
2nd	FR1 n77_MIMO2	100M_BPSK_1_1	Bottom of Laptop	0mm	Speed	Laptop	ON	656000	3840	17.91	18.50	1.146			-0.09	0.957	1.03	1.096

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

15.3 LTE n41/n77 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for FR1 n41/n77. The highest available duty cycle for Power Class 2 operation is 50% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each FR1 configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required.

Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

	FR1 n41_Main Ant (Power Class 3)	FR1 n41_Main Ant (Power Class 2)
Maximum Tune up Power (dBm)	24	27
Reported 1g SAR (W/kg)	0.838	0.793
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR(W/kg)	0.84	
% deviation from expected linearity		-5.15%

	FR1 n77_Main Ant (Power Class 3)	FR1 n77_Main Ant (Power Class 2)
Maximum Tune up Power (dBm)	18.5	21.5
Reported 1g SAR (W/kg)	1.003	0.921
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63
Linearity SAR(W/kg)	1.00	
% deviation from expected linearity		-7.96%

	FR1 n41_MIMO2 Ant (Power Class 3)	FR1 n41_MIMO2 Ant (Power Class 2)
Maximum Tune up Power (dBm)	20.5	23.5
Reported 1g SAR (W/kg)	1.189	1.128
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94
Linearity SAR(W/kg)	1.19	
% deviation from expected linearity		-4.91%

	FR1 n77_MIMO2 Ant (Power Class 3)	FR1 n77_MIMO2 Ant (Power Class 2)
Maximum Tune up Power (dBm)	18.5	21.5
Reported 1g SAR (W/kg)	1.132	1.059
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63
Linearity SAR(W/kg)	1.13	
% deviation from expected linearity		-6.23%

	FR1 n41_MIMO3 Ant	FR1 n41_MIMO3 Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	5.5	8.5
Reported 1g SAR (W/kg)	0.36	0.325
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	3.55	3.54
Linearity SAR(W/kg)	0.36	
% deviation from expected linearity		-9.51%

	FR1 n77_MIMO3 Ant	FR1 n77_MIMO3 Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	7	10
Reported 1g SAR (W/kg)	0.301	0.272
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	5.01	5.00
Linearity SAR(W/kg)	0.30	
% deviation from expected linearity		-9.42%

	FR1 n41_Aux Ant	FR1 n41_Aux Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22	25
Reported 1g SAR (W/kg)	1.079	0.978
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11
Linearity SAR(W/kg)	1.08	
% deviation from expected linearity		-9.15%

	FR1 n77_Aux Ant	FR1 n77_Aux Ant
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22	25
Reported 1g SAR (W/kg)	0.841	0.77
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11
Linearity SAR(W/kg)	0.84	
% deviation from expected linearity		-8.22%

16. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WWAN Main + WWAN MIMO2 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2	Yes
2.	WWAN Main + WWAN MIMO2 + WLAN2.4GHz Ant 1 + Bluetooth Ant 2	Yes
3.	WWAN Main + WWAN MIMO2 + WLAN5/6GHz Ant 1 + WLAN5/6GHz Ant 2 + Bluetooth Ant 2	Yes
4.	WWAN MIMO3 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2	Yes
5.	WWAN MIMO3 + WLAN2.4GHz Ant 1 + Bluetooth Ant 2	Yes
6.	WWAN MIMO3 + WLAN5/6GHz Ant 1 + WLAN5/6GHz Ant 2 + Bluetooth Ant 2	Yes
7.	WWAN Aux + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2	Yes
8.	WWAN Aux + WLAN2.4GHz Ant 1 + Bluetooth Ant 2	Yes
9.	WWAN Aux + WLAN5/6GHz Ant 1 + WLAN5/6GHz Ant 2 + Bluetooth Ant 2	Yes

General Note:

1. The Intel AX211D2W WLAN/BT module is integrated into this host. The WLAN 2.4GHz/5GHz and Bluetooth SAR results are referenced from Intel SAR report, report number: 221017-01.TR01 (FCC ID: PD9AX211D2), WLAN 6GHz SAR referred to new report No.: 221017-01. TR02 (FCC ID: PD9AX211D2).
2. The worst case SAR from each WWAN transmit antenna is used for Sim-Tx analysis. Therefore, the following summations represent the absolute worst cases for simultaneous transmission for this device and it is conservative.
3. The Sim-Tx analysis for EN-DC active is choose the worst case standalone SAR from the WWAN main and MIMO2 antenna within the exposure positions, regardless of whether the EN-DC combinations. Therefore, the following summations represent the absolute worst cases for simultaneous transmission for this device and it is conservative.
4. The Scaled SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation $< 1.6\text{W/kg}$.
 - ii) $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR $< 1.6\text{W/kg}$.
 - v) The SPLSR calculated results please refer to section 16.2.

16.1 Body Exposure Conditions

Exposure Position	1	2	5	6	7	8	9	1+2+5+6	1+2+5+9	1+2+7+8+9	1+2+5+6	1+2+5+6	1+2+5+9	1+2+5+9	1+2+7+8+9	1+2+7+8+9
	Maximum WWAN Main	Maximum WWAN MIMO2	WLAN2.4GHz Ant 1	WLAN2.4GHz Ant 2	WLAN5/6GHz Ant 1	WLAN5/6GHz Ant 2	Bluetooth Ant 2	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	SPLSR	Case No	SPLSR	Case No	SPLSR	Case No
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
Bottom of Laptop at 0mm		1.191	0.290	0.380	0.840	0.370	0.110	1.861	1.591	2.511	0.02	Case 1			0.02	Case 2
Bottom Face at 0mm	0.122	1.126	0.760	0.630	0.730	0.920	0.190	2.638	2.198	3.088	0.02	Case 3	0.01	Case 4	0.03	Case 5
Edge 1 at 0mm	1.185							1.185	1.185	1.185						
Edge 2 at 0mm	1.011					0.070		1.011	1.011	1.081						
Edge 3 at 0mm		0.287	0.090	0.030	0.330	0.100	0.000	0.407	0.377	0.717						
Edge 4 at 0mm					0.400			0.000	0.000	0.400						

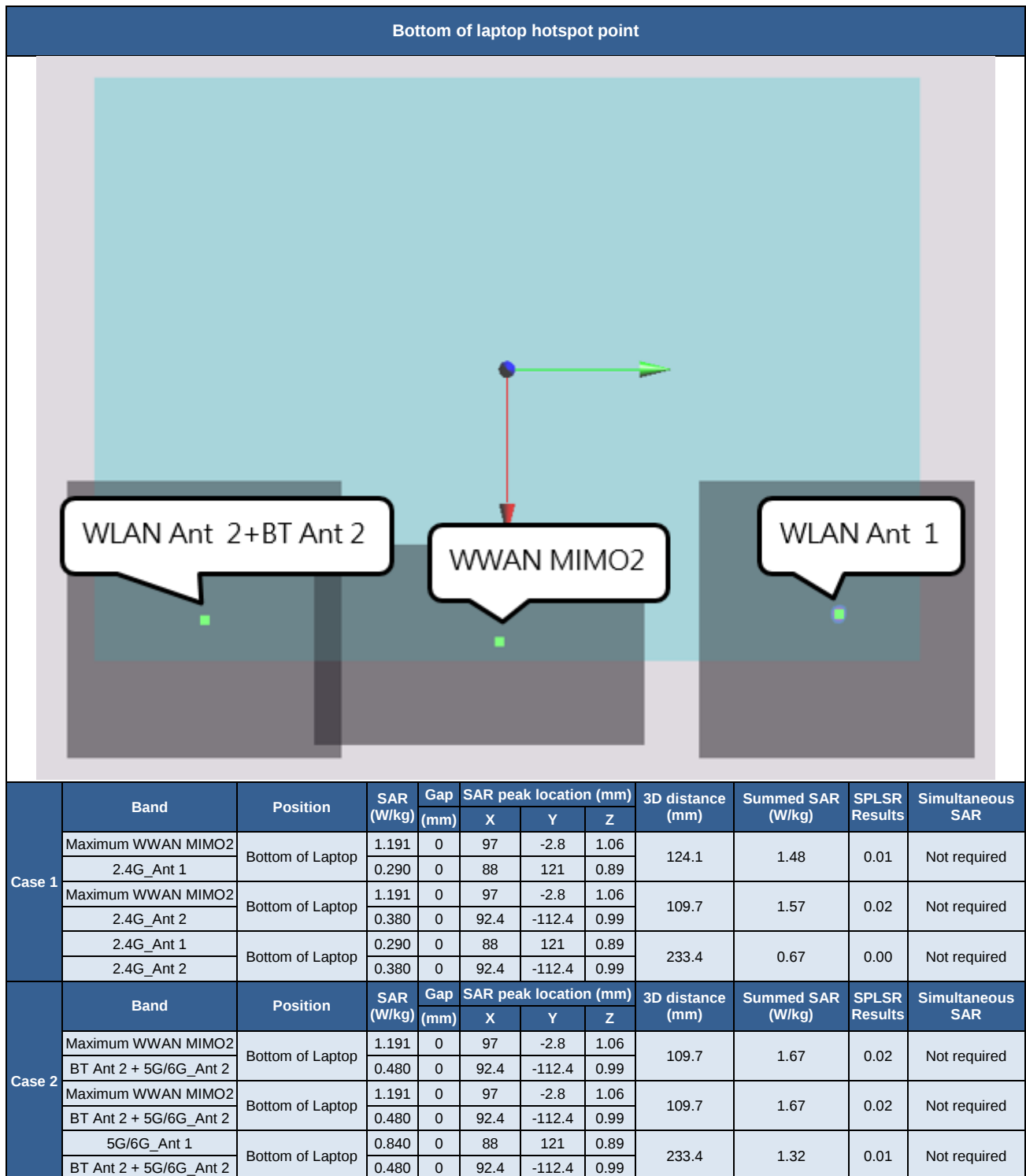
Exposure Position	3	5	6	7	8	9	3+5+6	3+5+9	3+7+8+9	3+5+6	3+5+6	3+7+8+9	3+7+8+9
	Maximum WWAN MIMO3	WLAN2.4GHz Ant 1	WLAN2.4GHz Ant 2	WLAN5/6GHz Ant 1	WLAN5/6GHz Ant 2	Bluetooth Ant 2	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	SPLSR	Case No	SPLSR	Case No
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
Bottom of Laptop at 0mm	0.140	0.290	0.380	0.840	0.370	0.110	0.810	0.540	1.460				
Bottom Face at 0mm	0.360	0.760	0.630	0.730	0.920	0.190	1.750	1.310	2.200	0.02	Case 6	0.03	Case 7
Edge 1 at 0mm							0.000	0.000	0.000				
Edge 2 at 0mm					0.070		0.000	0.000	0.070				
Edge 3 at 0mm	0.124	0.090	0.030	0.330	0.100	0.000	0.244	0.214	0.554				
Edge 4 at 0mm				0.400			0.000	0.000	0.400				

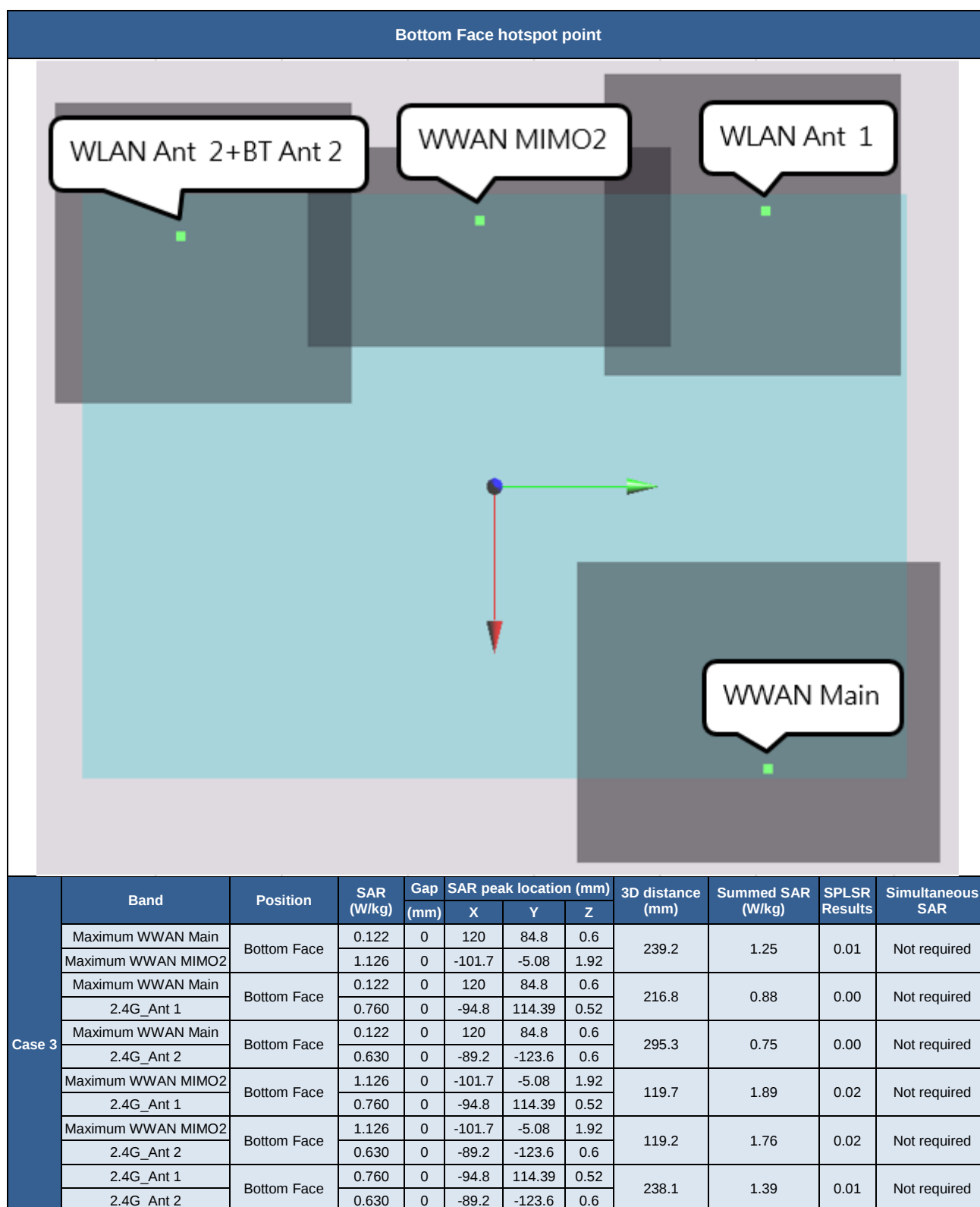
Exposure Position	4	5	6	7	8	9	4+5+6	4+5+9	4+7+8+9	4+7+8+9	4+7+8+9
	Maximum WWAN Aux	WLAN2.4GHz Ant 1	WLAN2.4GHz Ant 2	WLAN5/6GHz Ant 1	WLAN5/6GHz Ant 2	Bluetooth Ant 2	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	SPLSR	Case No
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Bottom of Laptop at 0mm		0.290	0.380	0.840	0.370	0.110	0.670	0.400	1.320		
Bottom Face at 0mm	0.098	0.760	0.630	0.730	0.920	0.190	1.488	1.048	1.938	0.01	Case 8
Edge 1 at 0mm	1.079						1.079	1.079	1.079		
Edge 2 at 0mm					0.070		0.000	0.000	0.070		
Edge 3 at 0mm		0.090	0.030	0.330	0.100	0.000	0.120	0.090	0.430		
Edge 4 at 0mm	0.328			0.400			0.328	0.328	0.728		

16.2 SPLSR Evaluation and Analysis

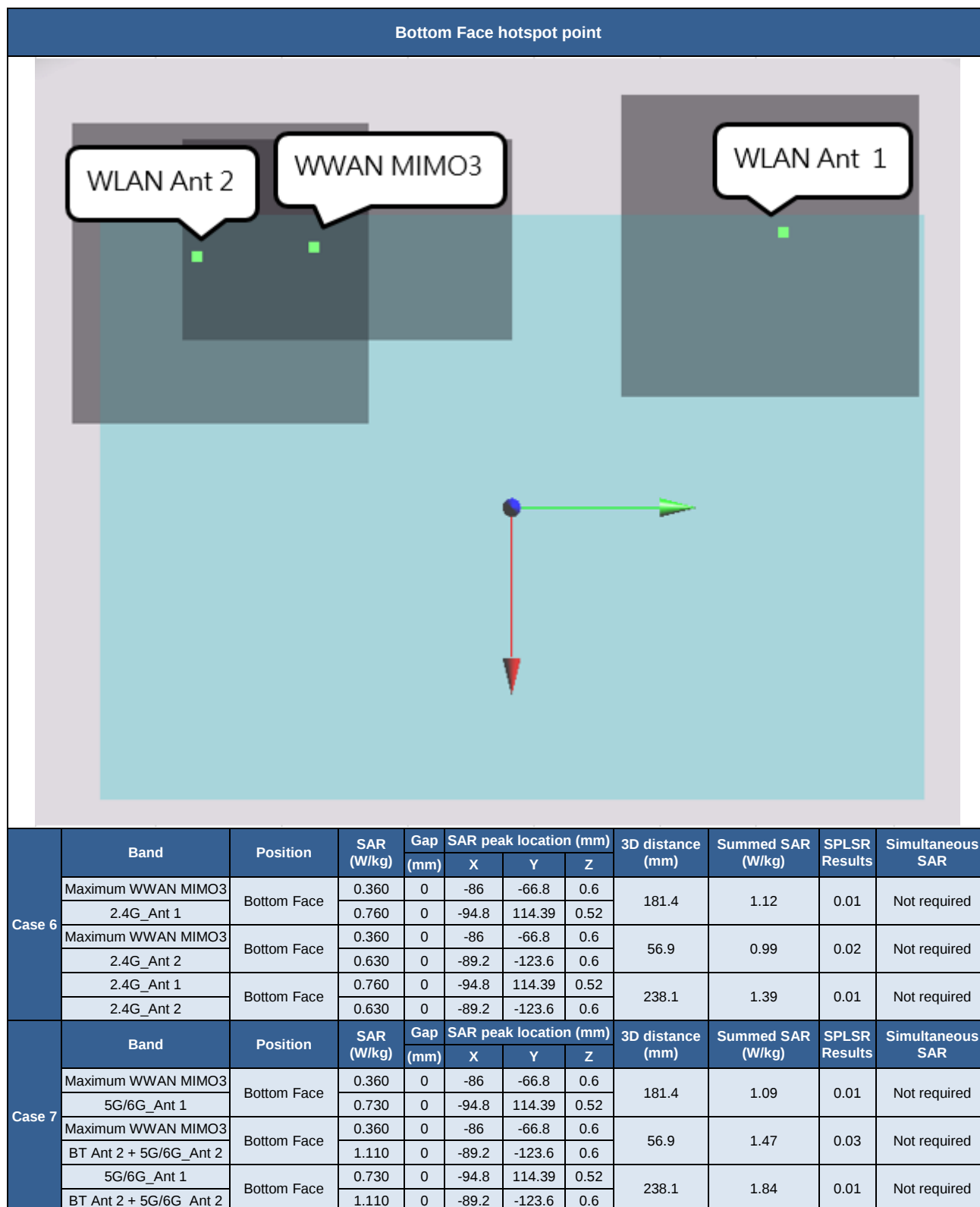
General Note:

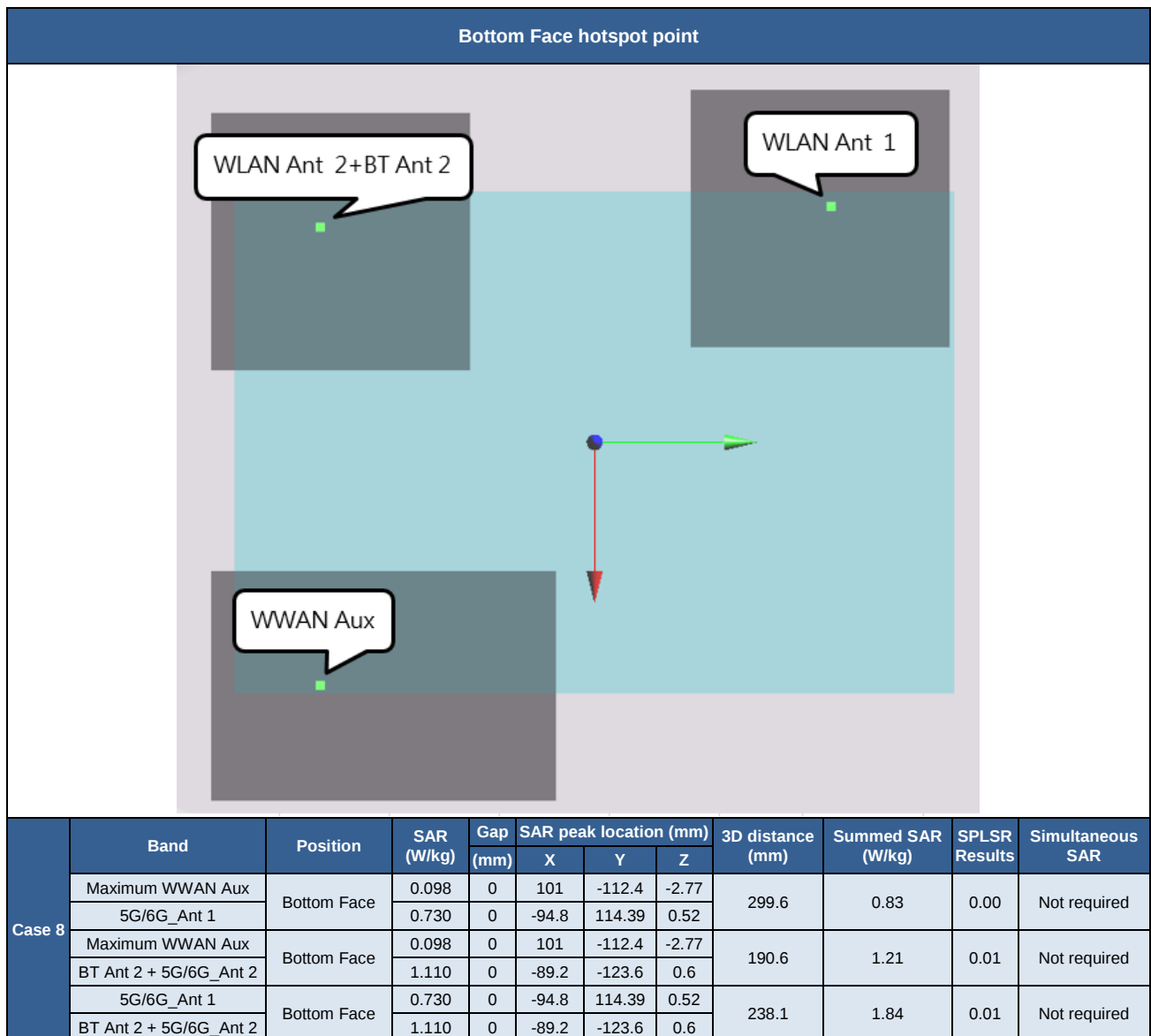
- Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Therefore, the adjacent transmit antennas will be summed first, and then the SPLSR calculation will be evaluated with the farther transmitted antennas.
- $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
- The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.





	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 4	Maximum WWAN Main	Bottom Face	0.122	0	120	84.8	0.6	295.3	0.31	0.00	Not required
	BT_Ant 2		0.190	0	-89.2	-123.6	0.6				
	Maximum WWAN MIMO2	Bottom Face	1.126	0	-101.7	-5.08	1.92	119.2	1.32	0.01	Not required
	BT_Ant 2		0.190	0	-89.2	-123.6	0.6				
	2.4G_Ant 1	Bottom Face	0.290	0	-94.8	114.39	0.52	238.1	0.48	0.00	Not required
	BT_Ant 2		0.190	0	-89.2	-123.6	0.6				
	Maximum WWAN Main	Bottom Face	0.122	0	120	84.8	0.6	239.2	1.25	0.01	Not required
	Maximum WWAN MIMO2		1.126	0	-101.7	-5.08	1.92				
	Maximum WWAN Main	Bottom Face	0.122	0	120	84.8	0.6	216.8	0.41	0.00	Not required
	2.4G_Ant 1		0.290	0	-94.8	114.39	0.52				
	Maximum WWAN MIMO2	Bottom Face	1.126	0	-101.7	-5.08	1.92	119.7	1.42	0.01	Not required
	2.4G_Ant 1		0.290	0	-94.8	114.39	0.52				
Case 5	Maximum WWAN Main	Bottom Face	0.122	0	120	84.8	0.6	239.2	1.25	0.01	Not required
	Maximum WWAN MIMO2		1.126	0	-101.7	-5.08	1.92				
	Maximum WWAN Main	Bottom Face	0.122	0	120	84.8	0.6	216.8	0.85	0.00	Not required
	5G/6G_Ant 1		0.730	0	-94.8	114.39	0.52				
	Maximum WWAN Main	Bottom Face	0.122	0	120	84.8	0.6	295.3	1.23	0.00	Not required
	BT Ant 2 + 5G/6G_Ant 2		1.110	0	-89.2	-123.6	0.6				
	Maximum WWAN MIMO2	Bottom Face	1.126	0	-101.7	-5.08	1.92	119.2	2.24	0.03	Not required
	BT Ant 2 + 5G/6G_Ant 2		1.110	0	-89.2	-123.6	0.6				
	Maximum WWAN MIMO2	Bottom Face	1.126	0	-101.7	-5.08	1.92	119.2	2.24	0.03	Not required
	BT Ant 2 + 5G/6G_Ant 2		1.110	0	-89.2	-123.6	0.6				
	5G/6G_Ant 1	Bottom Face	0.730	0	-94.8	114.39	0.52	238.1	1.84	0.01	Not required
	BT Ant 2 + 5G/6G_Ant 2		1.110	0	-89.2	-123.6	0.6				





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17. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [7] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [8] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [11] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.